

VOS NON EXCREMENTUM

TROOP H (AIR) 17th ACS COBRA GUIDELINE 1972

THIS IS NOT AN OFFICIAL DOCUMENT

SUBJECT: GUIDELINES FOR AIR CAV EMPLOYMENT

- 1. General: This guide contains information which has been compiled by combat experienced avaitors of TRP H (AIR) 17th ACS and is meant for use in the Central Highlands of Viet Nam.
- 2. Furpose: It is not intended to supersede the unit SOP but rather to provide the new aviator with information which has proven of value in performing the Air Cav combat mission.

Ronald M. Fishburn

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Commanding

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FORMS AND PUBLICATIONS

1. Aircraft commanders and pilots should read TM 38-750 (Aircraft Logbook Forms) 2. Prior to preflight the aircraft commander will review the aircraft logbook, noting entries on Form 2408-12, -13, -14, and -18. Discrepancies will be brought to the attention of appropriate personnel (maintenance officers, technical inspectors, and/or crewchiefs).

PREFLIGHT AND POSTFLIGHT

1. A detailed preflight and postflight will be conducted IAW TM 55-1520-221-GL prior to the first flight of the day and immediately after the last flight of the day.

2. The eircraft will not be flown for more than a four (4) hour period without

a shutdown and inspection.

FLIGHT EQUIPMENT

1. Helment/visor

2. Nomex suit

Protective suit

Gloves

Survival vest (Radio and E&E map)

ID tegs

Blood chit

Mans of the area of operation

Grease and lead pencils 9.

10. Flashlight for night operations

Water and C-rations when necessary 11.

12. Screw driver and 9/16 wrench (optional)

13. Personal weapon

RESPONSIBILITIES OF THE TEAM LEADER

1. Insures that his term meets takeoff times.

Makes communication shecks with his team prior to takeoff.

Contacts tower for takeoff and landings.

4. Selects inflight routes and altitudes clear of arty and enemy anti-aircraft threats.

5. Keeps his teem abreast of the mission.

Overall mission coordination with Air Mission Commander.

Selects tactics.

Reports all pertinent date with regular spot and situation reports.

Arranges late meals for his team.

10. Knows the whereabouts of each member of his team to insure timely takeoffs.

11. Instructs his team to safe all weamons systems prior to landings.

12. Provides coverage with minigun for scout: insures that the scout is within maxmium effective range of the minigun (1000 meters?).

13. Brief scout prior to descent as to A. O. boundaries and intelligence and fire clearance.

14. Give scout timely guidence to insure maximum coverage of the 1.0., maximum use of coverage (avoid open areas when possible), avoidance of hezards (i.e. anti-eircraft), and Coverage of areas of interest (i.e. suspected enemy locations or trails, bunkers or hootches, etc, snotted by lead aircraft).

15. Monitor forced landing areas for the scout. Lead must direct scout

immediately to the nearest forced landing area.

16. Bring the sout up to altitude when a problem is encountered (e.g. commo problems, lost tally, turret inoperational, guns engaging target where scout cannot be covered).

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RESPOSNSIBILITIES OF THE AIRCRAFT COMMANDER

- 1. Conduct a pilot briefing before takeoff.
- 2. Insures all weapon systems are safe prior to preflight.

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- 3. Checks DA Forms 2408-12/-13/-14/ and -18.
- 4. Conducts a detailed preflight inspection.
- 5. Train the new pilot.
- 6. Stresses safety of flight.
- 7. Discusses the CAV mission and demonstrates flight techniques.
- 8. Conducts a walk around inspection before takeoffs.
- 9. Stresses safety when rearming and refueling.
- 10. Conducts a postflight after last mission of the day.
- 11. Critiques the mission at the end of the day.
- 12. Conducts a DER and HIT check and insures that it is recorded on DA Form 2408-13.
- 13. Insures that the new milot understands the mission.
- 14. Conducts extensive training in ore and post flight procedures.
- 15. Monitors all radioes.
- 16. Makes appropriate transponder and navigational aid checks.
- 17. Monitors primary FM/ UHF and VHF frquencies for sommunication checks when starting aircraft.
- 18. Monitors instruments frequently during flight.
- 19. Monitors forced landing areas frequently during flight.

PILOT RESPONSIBILITIES

- 1. Sign for KAC wheel.
- 2. Copies missions.
- 3. Insures that the main rotor tiedown, grounding/safety devices have been removed prior to flight, and replaced immediately after landing.

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- 4. Insures that ammo bey hetches, engine/transmission cowlings, and tail rotor drive covers are secured for flight.
- 5. Flight follows on map.
- 6. Assists the pilot in emergency situations.
- 7. Loads and rearms the turret.
- 8. Assists the Aircraft Commander with runup procedures.
- 9. Keeps the Aircraft Commander clear of hazards during hovering, takeoff, and in flight manuvers.
- 10. If the lead front seat keeps the action bers depressed when the scout is working, he must keep the sight reticle at least 100 meters from the scout, know the maximum effective range, and the effect of trajectory shift and bullet dron.
- 11. The wing front seat must stay on the man, take accurate and complete sports, inform the Aircraft Commander immediately if any doubt exists as to the location on the man.

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WING SHIP RESPONSIBILITIES

- 1. Inform the mission leader when flight is up.
- 2. Obtain artillery information and relay to lead.
- 3. Advise flight lead on flight spacing.
- 4. Monitor all radioes to keen abreast of the mission in the event that the flight lead must be replaced.
- 5. Provide timely and effective covering fires for flight lead or other aircraft in the flight as amplicable.
- 6. Assist team leader in coordination when mission dictates.
- 7. Monitor guard especially heavy arty warnings. Fly with transponder on normal 1300 mode 3.
- 8. Cony accurate and complete spot reports.
- 9. Aircraft commander checks front seat coordinates occasionally or any time doubt exists as to the accuracy of the coordinates.
- 10.. Spot reports are in the following sequence:
 - a. Time
 - b. Callsign
 - c. Coordinates
 - d. Observation
 - e. Remarks

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MISSION REQUIREMENTS

Fire Mission

- 1. Location of friendlies, and size of perimeter within 1 kilometer.
- 2. Distance and direction to target.
- 3. Ground commanders' (American and ARVN) initials for danger close fires.

man are made to the transport of the transport and the contract the contract that

- 4. Continuous adjustment from Forward observer on all fires until fire for effect is given.
- 5. Warning when firing danger close fires. (HEADS DOWN)
- 6. Always use your gun target line for adjustment.

Escorts

- 1. Landing and takeoff direction.
- 2. Mission number.
- 3. Direction of break.
- 4. Friendlies.
- 5. Sorties.

Medivac

- 1. Friendlies and perimeter size
- 2. Enemy contact and direction of contact within last 24 hours.
- 3. Lending and takeoff direction.
- 4. Type litter, number of nationss, and priority.
- 5. Use a common UHF frquency for air to air commo.

GUIDELINES FOR AERIAL WEADONS EMPLOYMENT

- 1. Does the mission conform with the rules of engagement for armed helicopters?
- 2. Are the controller's instructions clear and in accordance with safe operating procedures?
- 3. Is the target positively identified?
- 4. If the target is in a nonulated area, has clearance to engage been confirmed?
- 5. Has contact been established with friendly ground elements in the general target area?
- 6. Are all friendlies marked and positively identified prior to the initial attack?
- 7. Hes the sefest direction of attack been selected?
- 8. Have friendlies been warned to take cover if the target is within 200 Meters?
- 9. Are friendly positions remarked prior to each firing pass?
- 10. Is the line of adjustment agreed upon between the ground controller and the team leader?
- 11. If requested to engage atterget where the friendly forces are within the MINIMUM SAFE DISTANCE of the warhead, or 200 meters, whichever is greater, the ground commander must state, "I acknowledge and accept responsibilities for danger close fire"? Have the ground commanders' initials been obtained?

ATTACK HELICOPTER GUIDELINES

- 1. Know the situation.
- 2. Make a complete briefing to all concerned.
- 3. Avoid flight in the deadman's zone.
- 4. Avoid flight in the 180 degree tail nosition.
- 5. Avoid flight parallel to terrain features.
- 6. Always assume that the area is hostile.
- 7. Always perform a high reconnaissance.
- 8. Locate the friendly troops.
- 9. Avoid target overflight.
- 10. Avoid firing over the heads of friendly troops.
- 11. Conserve ammunition.
- 12, Take your time.

TARGET ATTACK

1. Proper selection of ordence to employ.

2. Teem leader will insure that each aircraft in his team has been posityoned to afford meximum covering fires for one another before initiating tafget attack.

3. Any deviation from the planned method of attack will be made clear by stating precise intentions over the air to air net.

4. Teem leader will regroup his assets as soon as it becomes evident that interity has been lost.

5. Avoid breaking the minimum recommended safe altitudes when engaging anti-aircraft weapons.

6. Aircraft engaged in target attack have the right-of-way.

7. Avoid operating with light sections when in a heavy anti-eircraft environment.

ROCKET EMPLOYMENT

1. Maximum effective range 101b rocket: 3000meters.

Maximum effective range 171b rocket: 2500 meters

The XM 73 sight has been boresighted for -20 mils.

4. Do not move mill adjust knob if boresight is off; make write-un in book and park on boresight med.

5. A 25-30 psi torque setting is generally sufficient for firing rockets in

a normal dive.

6. An out of trim condition to the left will cause rockets to curve right (Weathervane effect).

7. An out of trim condition to the right will cause rockets to curve to left (Weathervane effect).

8. A vertical out of trim condition with:

e. too much nower will cause rockets to fell long

b. too little nower will cause rockets to fall short.

9. If aircraft fuselage is rolling left or right, rockets will tend to cross. This condition can occur when the SCAS system places an abnormal input in the roll channel. Azimuth changes to deflection and vice versa.

10. When using steen dive less nower is required.

11. When using shallow dive more power is required.

12. When firing 171b warheads combat sight setting will be amorox 1000 to 1100 meters.

13. When firing 101b werheads combet sight setting will be approx 1100 to 1200 meters.

14. An adjustment must be made after firing each pair during firing run due to the continuous reduction of the slant range and bullet dron.

15. 1000 meters is the optimum slent range for firing flechette rockets. Warhead activates approximately 1500 feet or 500 meters from the aircraft. At optimum slant range smoke should be half way between the sircraft and the target.

700m slant range: smaller Beaten zone and 100% kill probability of all standing people in Besten zone. Higher velocity and hest pentration

1000m slent range: 100mx50m Beaten zone with 50% kill probablility 1400m slent range: max effective range with approximately 10% kill probability. Lower velocity and minimum menetration.

MINIMUM SAFE FIRING DISTANCES

200 meters
200 meters
200 meters
200 meters
200 meters
300 meters
300 meters
50 meters
100 meters

NOTE:

1. All firing distances parallel to friendlies.

2. Ground commanders' initials are required if ordnance is fired within these minimu safe distances.

3. If target engagements is other than parallel, these distances increase by 50% except for flechette which is increased to 1000 meters.

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4. Special considerations are applicable when firing C/S rockets: WIND is a contributing factor.

5. When firing CS rockets, the milot or sircraft commander will wear a gasmask.

ENEMY WEAPONS

Tyne	ROW/MIN	MAX BANCE	ELL BVICE
.51 cal/12.7mm	600-200	23,0001	1000M
7.62mm/AK-47	Same M-16	8,2001	0001
7.62mm/SKS	Semi-eutomatic	8,2001	1,3101
57 cal/14.5mm	150	16,5601	1,3001
2.3mm	200	21,332 1	1,600M
37mm	80	26,2501	6,500M
30cal HMG	N/V	9,8501	1,6501
30cal lmg	N\v	8,2001	1,6501

OPERATION IN AN ANTI-AIRCRAFT ENVIRONMENT

1. Know the anti-aircraft cambility in the assigned area of operations.

2. Avbid repetitive flight maths.

3. Limit low level flight.

4. Recognize the effectiveness of enemy small arms fire below 2000 1.

5. Employ your most effective weapon against the anti-aircraft threat. the most effective weapon is the flechette rocket. I steen angle of attack has proven most effective with breaks being initiated before reaching 1,500 AGL. When flechettes are not evailable, point detonating rockets should be used. Often time the sound of the rocket bing fired is sufficient to momentarily suppress enemy fire.

SUSPECTED SURFACE TO AIR MISSLE (SA-7) LAUNCH

1. Turn away from missle.

2. Lower nose of the aircraft. Allows for reduced infrared

3. Descend to low level.

NOTE: Extended low level nam of the earth flight may be necessary in a heavy missle environment.

WARNING: If operating in a high anti-aircraft thereat area but no SA-7's have been reported, keep your rotors in the clouds since this also reduces the IR signature. If at all possible operate between 3,000 and 5,000' AGL since you will be out of the effective range of the 51 cal and below the flak producing areas.

SUSPECTED RADAR CONTROLLED WEATONS

1. Execute immediate 90decree turns.

2. Never maintain straight and level flight more than 30 seconds.

3. Descending turns will further reduce danger.

BASIC AIRCRAFT LOADING

To insure that weight and balance restrictions and density altitude considerations have not been exceeded, the unit has extablished the following basic loading policy:

Rockets Inboard Outboard (158)
101b (HE/CS or flechette) Full Full
171b(HE) 14 N/A

Note: If M-157 or XM-158 mods are used outboard, they may be commistely filled with any type of rocket.

Mo not mix unlike rockets in the same nod.

In special instances these basic loads may be waived at the discretion of the aircraft commander. M159-C and XM-200 pods inboard can support a complete load of 171b rockets. Fuels loads should be reduced accordingly. Basic loading is a unit SOP.

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Fuel 1300lb for takeoff
Turret 40mm 150-200 rounds
7.62mm 1500-3000 rounds
20 MM 450 rounds

ORDNANCE	WEIGHT IN POUNDS
171b rocket	27.04
101b rocket	20.54
Motor MK 40	11,22
Fuse M423	.62
Warhead XM 229	16.10
Warhead M151	10-11 8.70 DURAS II
Pod XM 200	139.00
Pod M159-C	152.00
Drum for M-134	63.00
Drum XM-129	75.00
40mm 100 rds	76.00
7.62mm 200rds	130.00

Maximum wing store loading: Inboard 690 Outboard 550

Note: Rockets nods with 7 or more bad tubes will be changed.

ESCAPE AND EVASION GUIDELINES

1. Do not carry money.

2. Preflight and know how to operate your survival radio.

3. Carry your blood chit.

4. Time permitting take first sid/survival kit from aircraft.
5. Leave immediate vicinity of aircraft if in enemy territory.

(Do not move more then 500 meters from sircraft initially)

6. Destroy radios and aircraft weapons if time remmits.

7. Destroy SOI and any documents which would provide the enemy a source of intellignece.

8. Avoid use of trails or heavily traveled areas.

9. Travel at night when nossible.

10. If it becomes necessary to contact villagers for assistance, trust old reonle before young, and men before women.

11. In general follow rugged terrain. The enemy usually avoids these areas.

12. Remain calm.

13. Think positive.

14. When using the survival radis, alternate beening for 15 seconds and listening for 15 seconds. Remeber that the battery life of the battery is approximately 36 hours after it is put in the radio. You can use other frquencies provided on the URC-68 after contact has been established on guard; it is better to change channels so you do not tie un guard frequencies. The following are the frequencies:

UHF
G 243.00 40.50
A 235.00 38.00
B 241.0 40.10
C Left Open Left Open

15. King Air will be on station soon after you have crashed; he has the capability of fixing your position to 10 meters and has all armod forces aviation assets to deploy. Know the Eand E code and be sure to have your three questions on file in operations.

REFUELING PROCEDURES (HOT)

- 1. Aircreft commender insures that collective is full down and roce trim is on.
- 2. A three way exchange of controls is made.
- 3. The pilot opens his canony hatch, and reduces NIJ RPM to 5600, if ECU is left on 6000 RPM is desireable.
- 4. Aircreft commander turns low RTM audio switch off, exits the aircreft, and secures rear canony hatch.
- 5. Aircraft commander lowers visor, sleeves down, gloves on, flushes the fuel hose, takes a fuel sample, grounds the aircraft with grounding wires and devices provided at POL piont, then he refuels.
- 6. After refueling, the aircraft commander secures the gas filler can, removes all grounding devices and stows fuel fuel hose. An entry on the 2408-13 indicating the amount of fuel added and amount in the tank will be recorded.
- &. Aircraft commander makes a welk around inspection of his aircraft to insure that the aircraft is ready for flight.

ADJUSTING ARTILLERY

Call for fire

Identification Warning order Target location Direction (gun target line understood) Nature of target termination of the section Fuse/shell Special requirements Method of adjustment

FORCED LANDING

- Single shin
 - 1. May Day call

2. Use survival radio if aircraft commo is lost.

- 3. Contact OFNS, any sircraft, or any radio facility and give the following: has made about the or his powers
 - a. Aircreft identification
 - Location
 - Status of crew C.
 - d. Type terrain
 - e. General aircraft condition
 - Enemy activity
 - g. Fuel and ammo status
 - Weather conditions h.
- Formation

Contact term lead or other member of the flight

DOWNED AIRCRAFT PROCEDURES

It is the gun team lead's responsibility to monitor forced landing areas for the scout while working. If the scout cells going down or thinks a forced landing is imminent, the team lead must immediately vector the schut toward the nearest forced landing area and give constant adjustments as to heading and distance to L.Z. Contact downed crew immediately on guard and coordinate the extraction. If the aircraft did not make forced landing area, attempt extraction with the jungle penetrator. If extraction with the jungle penetrator is not possible, have the downed crew E&E to PZ (probably previously planned landing area). If not possible due to injuries or enemy, insert the reaction force.

NIGHT WEATHER OPERATIONS

1. Remove main rotor tiedown, bullet catcher, ground safety mins, and grounding devices.

2. Conduct: a thourgh preflight.

- 3. Insure proper operation of flight instruments, newigation equipment, external and internal lighting, generator, inverters, defrosters, and, rain removal.
- 4. Have necessary frquencies available in the event night/weather emergencies are encountered.
- 5. Always carry a flashlight, and have it in an accessible place in the event of electrical failure.
- 6. Conduct a last minute walk around inspection of the aircraft prior to takeoff.
- 7. ITO procedures: level aircreft, set heading selector, place minature airplane approximately 2 bar widths above the horizon, use hover nower plus 5 psi torque for takeoff.
- 8. Landings should be accomplished from front seat when the milot has demonstrated proficiency.

9. A/S, VSI, and ALT are unreliable below 25kts JAS and 25 feet altitude.

- 10. Searchlight should be set 15 degrees down during night takeoffs and landings.
- 11. During diving manuvers the milet should give the aircraft commander altitude, A/S, torque, angle of bank, and dive readings with altitude being the most important.
- 12. The aircraft commander should be on instruments during BREAKS from dives.
- 13. Teh aircraft commander should be on instruments and break with sufficient altitude to have wings in level flight at 1500feet AGL or above.
- 14. The milot should take control of the sircraft if the sircraft commander is experiencing vertigo (attemp to verbally confirm this).
- NOTE: During night landings at DA's below 7000 feet, a reduction of 11b of torque will increase the rate of descent approximately 100 feet/ minute.
- 15. Use Peacock for radar vectors at night. GCA's are available and sometimes necessary.
- 16. Learn to employ Night Hawk, flare bird and arty illumination.

NAVIGATIONAL AIDS

- 1. Use FM homing when amplicable.
- 2. When using the ADF receiver, the normal range is 150 NM. It is unreliable in electrical storms or areas of interference.
- 3. Make daily transponder checks with Peacock Control.

RADIO MAINTENANCE/ FRECHENCY RANGES

Aircraft radios should not be turned on until amperage has dropped to approximately 100AMPS (scramble departures are the exception to this rule). If this procedure is adherred to, aircraft radio life will be more than doubled.

Radi	o frquency ranges
FM	30.00-6995
UHF	225.00-399.90
VHF	116.00-149.975

Renge NM	Powered by
80 MM L/S	28V DC NE Buss
50NM L/S	28V DC ESSBuss
50 Nm L/S	SEA DC ME BASS

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GENERAL INFORMATION

Fuel/Oil/ Hydraulics
LBS/GAL
Oil 8.0

Oil 8.0 Fuel 6.5

Canacities

Engine oil 2.75 USgal

Transmission oil 2.25 US gal

42 gearbox .375 US nints

90 gearbox .50 US nints

Fuel (service) 247 US gal

Aft cell 130 US gal

Fwd cell 117 US gal

Hydraulics systems #1 6.0 US mints #2 6.6 US mints Reservoir 3.2 US mints

Overspeeds

NI

6640 above 91% for 3 seconds

NII

6750 below 91% is rermissable

6800 write up overspeed

Rotor

339

Characteristics of the AH-1G

 Lenght
 52' 11 1/2"

 Rotor disk dia
 44!

 Payloed
 1638.5 lbs

 Cruise sneed
 130k/150° mph

 Fuel
 1,755 lbs

 Average fuel consumption
 630lbs/hr (loaded)

 2015
 Freelanding 20

Endurance C2+15 (Excluding 30 minutes reserve)

AIR CAV TACTICS CONSIDERATIONS

- 1. Use the 90 degree wing position with wing high whenever possible. When working steen mountains the 180 degree may be required. The ninety degree position allows for clover leaf gun run pettern.
- 2. UHF will be used only by gunlead and scout when the scout is working. Lead will avoid long transmissions. If a long transmission is necessary, break the transmission up and listen to make sure the scout isn't taking fire.
- 3. Monitor forced landing areas for the scout and also for yourself.
- 4. When an aircraft in orbit other than the scout takes fire, the scout must be brought up to altitude away from the fire while the guns are sither evading or suppressing fire.
- 5. When inserting or extracting troops, you must know the friendly locations and attempt to get prior fire clearance in the event that enemy fire is encountered.
- 6. When possible work the scout around open areas where he is vulnerable.
- 7. Avoid working near villages because there is usually little cover and the rules of engagement are strict.
- 8. Wing ship is usually outside the maximum effective range (1000m) of turret and should avoid firing close cover when the scout takes fire.
- 9. Due to low VNE (normally 150kts) with a high density altitude and gross weight, it is advisable to decelerate to 50 kts prior to turning inbound on a gun run to allow maximum time inbound without exceeding VNE. Iead gun will turn inbound immediately when the scout takes fire while most other times the lead gun will have time to set up and decelerate.
- 10. Right breaks should be used whenever possible to continue the clover-leaf pattern.
- 11. If lead breaks left he will be between the wing and the target and cannot be covered adaquately. The right break allows direct rocket fire on the target area while the outbound shin breaks. After the right break, lead can then resume a left hand orbit and cover the wing shin's break with the turret.
- 12. Cloverleaf mattern:

