

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY FIELD ARTILLERY CENTER AND FORT SILL
Fort Sill, Oklahoma 73505-5100

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Safety
RANGE REGULATIONS, FORT CHAFFEE

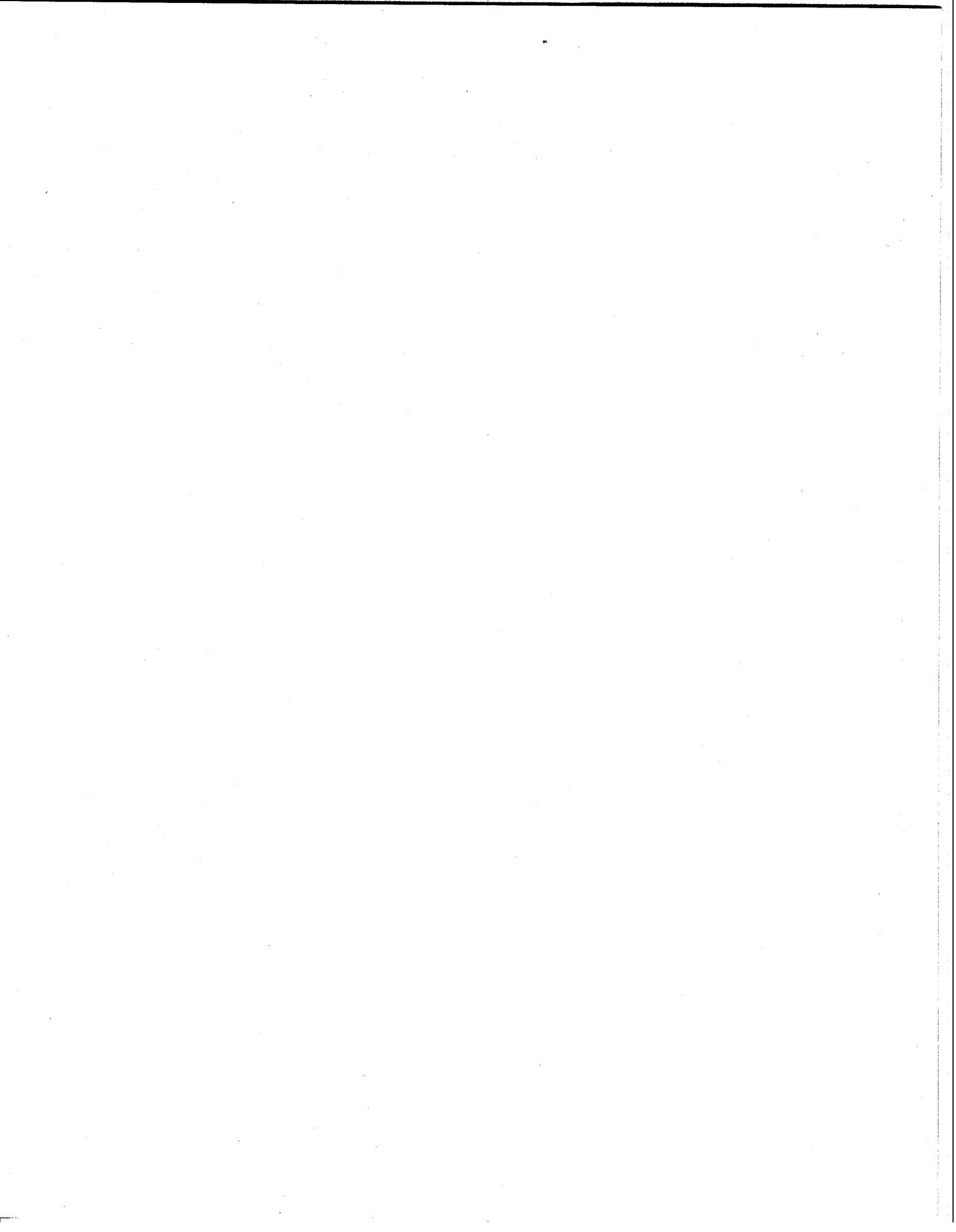
Supplementation by subordinate commanders is prohibited,
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*This regulation supersedes USAFACFS regulation 385-1-1, 9 January 1986.

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CHAPTER 1

GENERAL

1-1. PURPOSE AND SCOPE.

a. This regulation prescribes procedures to be followed by units training at Fort Chaffee in order to ensure realistic training that will enhance combat readiness while at the same time ensuring the conduct of safe operations on ranges and Training Areas (TAs).

b. This regulation supplements AR 385-62, AR 385-63, and other related safety publications.

c. Unless otherwise directed by the Commander, U.S. Army Garrison, personnel training at Fort Chaffee will comply with the requirements and the directives prescribed herein.

1-2. ORGANIZATION OF THE RESERVATION.

a. The Fort Chaffee training area is generally defined as that area located within the post boundaries except for the cantonment area.

b. The reservation is composed of approximately 72,000 acres and is divided geographically, by highways, into three areas. These areas are further divided into 54 training areas and two impact areas - the 12,000 acre Small Arms Impact Area (non-dud producing) and the 18,000 acre Artillery Impact Area (dud producing). The Small Arms Impact Area may be used as a maneuver area upon approval of Range Control.

c. The Artillery Impact Area is extremely dangerous. This impact area is marked by signs at 200 meter intervals around it. Under no circumstances will anyone enter this impact area without prior approval of the Range Officer.

d. Due to range use, other areas may be considered danger areas. When this situation occurs, a notice will be published in the Fort Chaffee Bulletin. Additional signs may be posted and road guards or barriers used.

1-3. ACCESS TO AREAS ON THE RESERVATION. Entry into or use of any range, firing position, training area, or range facility for any reason must be approved in advance by the Chief, Operations and Range Control.

1-4. RANGE FIRES. These measures are applicable to all portions of the Fort Chaffee Military Reservation outside the cantonment area of the post not serviced by the fire hydrant system.

a. Fire Prevention and Protection. Units conducting training at Fort Chaffee will maintain a continuing program of educating personnel in fire prevention, reporting of fires, and firefighting. The following points are to be emphasized:

(1) Lighted smoking materials and matches are not to be thrown from vehicles.

(2) Flammable materials, such as, grass and leaves, must be cleared at least 15 feet from all demolition pits.

(3) There will be no smoking within 100 feet of ammunition or petroleum products.

(4) Pyrotechnics such as signal flares, smoke grenades, trip flares, and all simulators present extreme fire hazards. They will be used only in those areas clear of all combustible vegetation and will be closely observed until extinguished.

(5) Blank ammunition will not be fired directly into dry foliage.

(6) Trash will not be burned on the range but must be transported to the sanitary landfill by the unit.

(7) The control of camping and picnic fires is covered in paragraph 8-3.

b. Burning Excess Powder Charges-Artillery.

The Position Commander/Safety Officer/NCO of each firing position will ensure that proper procedures are followed in the burning of all excess powder increments. Burning will be accomplished at the approved burn site located at Grid 971025. Units will be required to contact Range Control, FM 38.50, prior to burning of excess powder charges.

(a) Burning will be supervised by either the Position Commander, Safety Officer, or Safety NCO. Unit personnel will remain at the burn site until the fire is out. Units are required to keep a record of excess powder charges burned and turn it in to the Fort Chaffee ASP at the completion of training.

(b) Prior to ignition, powder charges will be laid in a single line not to exceed 12 inches in width, and not more than 100 lbs per line. Powder charges must not be piled on one another, but will be burned in a single layer. There are six burn lanes within the burn site. Lanes will not be used more than once every 24 hours. The charges will be ignited from the downwind end, using a train of powder approximately 25 feet long.

(c) The supervisor will be sure that no other material is burned at this site.

c. Range and Grass Fires.

(1) Anyone observing a fire in any range area will report it by the most expeditious means to the Range Control Office during duty hours, or to the Fire Department during nonduty hours.

(2) Upon discovering a fire outside the impact area, unit commanders will commit available personnel and equipment to fighting the fire. The suppression of a range fire will take priority over training being conducted.

(3) During periods of dry weather units must be prepared to assist in fighting any fire that occurs. Therefore they must carry firefighting equipment to the field. This equipment will include full water trailers, shovels, burlap bags, and fire beaters. Fire beaters will be issued by the fire station.

(4) Fires within the impact area will not be fought. Such fires will be monitored and prevented from spreading outside the impact area. Fires within the small arms impact area will be fought only after Range Control has check fired all firing within that impact area.

d. Weather Conditions. During extreme dry and windy periods, and at other times when additional precautions are required, the Range Officer may--

(1) Temporarily suspend burning of excess powder charges. Unused powder will be repackaged in the original containers and returned to the ammunition supply point. ASP personnel will be notified of the change. Units will pick up the powder and burn it when the suspension has been lifted.

(2) Restrict use of such flammable munitions as pyrotechnics, demolitions, tracers, white phosphorous shells, and illuminating shells.

e. Range Firefighting Details.

(1) Each major unit will organize firefighting details. These details will be available at all times during the annual training period. The Fort Chaffee Range Officer will be notified in writing of the units or unit designated by the headquarters to provide details.

(2) Composition of each detail will be:

	STANDBY	SUPPLEMENTAL	
		(1st)	(2d)
Officer	1	1	1
NCO	1	5	5
EM	30	50	50
1/4, 3/4, or 1 1/4-ton truck with FM radio	1	1	1
2 1/2 or 5-ton truck	3	5	5
Full Water Trailer	3	5	5
Field Telephone	1	1	1
1-Mile Field Wire	1	1	1
Burlap Bag or Fire-Beater (per individual)	1	1	1
D-Handle Shovel	15	25	25
Axes	15	25	25

(3) Firefighting details will be provided on 24-hour basis, and will be maintained at a state of readiness which will enable departure from the unit area and arrival at the Post Fire Station or other designated place not later than:

(a) Standby: 30 minutes after notification.

(b) Supplementals: 1 hour after notification.

(4) Firefighting activities of the detailed personnel will be directed by the Post Fire Marshal or his designated representative.

(5) Notification for firefighting will be made through the S-3 channels during duty hours, or duty officer channels during nonduty hours.

(6) Units providing details will be responsible for feeding these individuals in the field and for providing reliefs, as required.

(7) Firefighting personnel will have a first aid packet and a full canteen of water.

1-5. NIGHT FIRING LIGHTS. No night firing from indirect firing positions or from Range 86 will be conducted on Fort Chaffee until the warning lights located on Christmas Knob and Little White Oak Ridge have been lighted.

1-6. HEARING HAZARDS. Commanders at all echelons are responsible for implementing the requirements set forth by AR 40-5 on hearing conservation. Unit commanders will ensure that personnel have in their possession appropriate protective devices. The OIC and Safety Officers will be sure that the provisions of AR 385-63 are met by requiring personnel in the vicinity of their range or firing position use hearing protective devices during live firing.

1-7. FIRING ACTIVITIES. The schedule of range firing activities is published in the Fort Chaffee Bulletin. The Bulletin will list the location of ground danger areas, the hours and dates, and the type of firing to be conducted. Firing at night and on weekends is not uncommon. Personnel will consult the Fort Chaffee Bulletin before venturing onto the range. Temporary barriers and roadguards will be placed on the main roads and trails within the reservation to prevent unauthorized or inadvertent entry into danger areas. Questions concerning the exact limits of danger will be answered at the Range Control Office. Pilots of aircraft used in support of an exercise must coordinate flight paths with the Range Control Office prior to the start of the exercise.

1-8. DUDS. Personnel are warned not to pick up any projectiles, flares, simulators, or any unidentified objects that may be found on the range. Any type of unexploded ammunition should be considered to be extremely dangerous. If any type of ammunition is found, the location should be marked and reported at once to the Range Office. A stake, branch, or any suitable material should be used to mark the area of the dud no closer than 10 meters from the dud. If possible, the exact location of the dud should be determined by map coordinates and reported. The removal of any dud ammunition from the Fort Chaffee Range, whether training or live, is strictly prohibited and punishable under law. The Commander, USAG, Fort Chaffee, will ensure compliance with the provisions in AR 385-63, para 2-10.

1-9. ACCIDENT/INCIDENT REPORTING PROCEDURES.

a. Accidents and incidents occurring in the range area must be reported to the Range Office immediately.

b. DA Form 285 (Accident Report) will be prepared and submitted in accordance with USAFACFS Reg 385-10-1, paragraph 73.

c. Accidents resulting in serious injury or death, or in damage to equipment or facilities in the amount of \$1000 or greater will be investigated immediately by an investigation board appointed by the major headquarters concerned, in accordance with USAFACFS Reg 385-10-1, section XV.

d. For reports submitted for erratic firing, see paragraph 1-10 below.

e. For reports submitted for ammunition malfunction, see paragraph 1-11.

1-10. ERRATIC FIRING. Immediate action will be taken to report any projectile that bursts or lands outside the prescribed safe limits.

a. Anyone detecting rounds impacting outside of safe limits or outside of the established impact area will--

(1) Cause the responsible unit to suspend firing.

(2) Immediately report the incident to Range Control. The report will include:

(a) Date and time the erratic round was observed.

- (b) Extent of injury or damage.
- (c) Number of rounds observed.
- (d) Location of impact.
- (e) Estimated height of airburst.
- (f) Location of observer.
- (g) Name and unit of observer.

b. The Range Officer will--

(1) Order an immediate check fire of mortar and artillery units. (The Post Commander and Chief, Operations, U.S. Army Garrison, will be notified of the check fire)

- (2) Analyze available facts and data to determine the suspect unit.
- (3) Require a technical service investigation if ammunition or weapon malfunction is suspected.
- (4) Prepare a preliminary Report of Investigation.

(5) Report the incident to the major command headquarters of the suspect unit and require an investigation be conducted. A full written report of the investigation will be submitted to this headquarters, ATTN: ATZR-ZC within 24 hours.

(6) Interim reports will be provided to the Chief, Operations, U.S. Army Garrison, as required throughout the investigative process.

c. Safety Officers will--

- (1) Suspend firing immediately.

(2) Immediately cause section members to fall in at rear of their pieces and ensure that pieces and associated equipment or material remain untouched. No ammunition will be disturbed until clearance has been given by the Range Officer.

- (3) Collect firing data from the weapons and FDC, and provide this information to Range Control.

d. An investigating officer will be appointed on orders by the major unit commander. The investigative report will include, but is not limited to, the following:

- (1) Description of the facts and circumstances.
 - (a) Unit involved.
 - (b) Date and time of the incident.
 - (c) Type and caliber of weapon involved.
 - (d) Lot #, nomenclature, and number of both projectile and fuze.
 - (e) Description of the incident.
 - (f) Description of procedures followed by OIC, Safety Officers, and other personnel involved.
 - (g) Name and rank of OIC and Safety Officers/NCOs.
- (2) Command Safety Summary.
 - (a) Qualification prerequisites for appointment as OIC.
 - (b) Duties of Safety Officers/NCOs (SOP).

(3) Conclusion. The conclusion will list any corrective actions taken by the unit to preclude future occurrences. It may also include any recommendations by the unit. Corrective actions and recommendation statements must be signed by the major unit commander.

e. Reports of erratic firing will be submitted, in triplicate, to commander, ATTN: ATZR-ZC within 24 hours of notification. The Range Officer or Fort Chaffee Chief, Operations have the right to reject any incomplete or unsatisfactory investigative reports. Units will not be allowed to resume a 'hot' firing status until a satisfactory report has been received by the commander of Fort Chaffee.

f. Investigating officers may obtain assistance by contacting Range Control, Building #7102.

g. Continuance of exercise can only be authorized by the Commander, Fort Chaffee.

1-11. MALFUNCTION.

a. In the event of a misfire, hangfire, or other routine malfunction, the Safety Officer/NCOs will take the prescribed actions set forth in applicable TMs, and notify Range Control of the malfunction and the actions taken.

b. In the event of a malfunction other than routine, the Safety Officers/NCOs will (as a minimum)--

(1) Immediately suspend firing and notify Range Control.

(2) Ensure that the weapon and ammunition involved are retained intact.

(3) Notify Range Control of actions taken. A responsible individual from the Range Control Office will then immediately notify the Chief, Ammunition Branch, Supply division (Post Ammunition Officer). The Post Ammunition Officer will request the services of the Chief of Maintenance, if required.

(4) Continue exercise/problem only after clearance has been granted by the Range Officer or his designated representative.

c. The Range Officer, or designated representative will--

(1) Report the incident to the major command headquarters of the unit involved. If the incident was attributable to human error, the Range Control Officer will request through channels a formal investigation and report by the major unit involved in accordance with para 1-10b of this regulation.

(2) Take necessary action to advise subordinate commands if the incident involved suspended ammunition.

(3) Authorized continuance of exercise/problem if circumstances indicate such action is appropriate.

1-12. TRANSPORTING EXPLOSIVES.

a. Explosives will be transported and handled only under the direct supervision of competent and qualified personnel who are thoroughly familiar with the safety regulations listed in AR 385-63, TM 9-1300-206, FM 5-25, USAFACFS Reg 350-12, and field manuals for specific weapons.

b. Vehicles transporting explosives will display "EXPLOSIVE" signs on the front, rear, and each side of the vehicle. Signs will be covered or removed when vehicles are not carrying explosives. Trucks loaded with explosives will not be brought into the cantonment area, and will not operate outside the boundaries of Fort Chaffee.

c. Vehicles transporting ammunition must meet the regulation requirements listed in AR 385-64, TM 9-1300-206, USAFACFS Reg 350-12, and field manuals for specific weapons.

d. Tarpaulins are not required to cover ammunition being transported in combat vehicles on the reservation.

e. Government vehicles involved in on-post shipments of ammunition/explosives shall be equipped, as a minimum, with two Class 1-B and C rated portable fire extinguishers, one mounted outside on the driver's side of the vehicle and the other inside the driver's compartment.

f. Unless an organization has a specific training requirement, field ammunition storage areas may not be established. However, units going on an extended field problem of two or more days may pick up the entire requirement at one time and use as necessary.

g. Powder increments or charges for different types of separate-loading cannons will not be carried on the same vehicle. Example: Powder charges for 8-inch howitzer, and 155-mm, will not be carried together on a vehicle in any combination.

1-13. CARE IN HANDLING AND PRESERVATION OF EXPLOSIVES.

- a. Explosives and ammunition will be handled and transported carefully. Containers will not be tumbled, dragged, thrown, dropped on each other, rolled or walked over the floor, or dropped from tailboards of trucks. Ammunition will be loaded and blocked to prevent damage to ammunition and vehicles.
- b. Personnel handling ammunition must not tamper with the components unless specifically authorized to do so.
- c. Only nonferrous or other nonsparking (i.e., bronze) tools or equipment will be used in conjunction with explosives. Safety tools are required in opening boxes for repairs.
- d. Ammunition will be protected from direct sunlight and the elements dunnage will be used when ammunition is stacked on the ground.

1-14. AGGRESSOR ACTIONS. Any unit or testing team using aggressor personnel for field exercises will comply with the following:

- a. Agents CS or CN or nuclear simulators will not be used without the prior approval of the Range Officer.
- b. A precise and detailed schedule will be planned for aggressor attacks. Aggressors will not interfere with critical activities, i.e., attack or interrupt an artillery unit in the process of executing a live fire mission.
- c. There will be no bodily contact or personal assaults such as throwing rocks, use of rifle butts, fights, etc., between the aggressors and the unit. There will be no mistreatment of "captured" personnel by either side at any time.
- d. The officer in charge of the aggressor actions will be sure there are no individual untoward actions by aggressor personnel.
- e. The OIC of aggressors must have a radio tuned to the frequency of the exercise director.
- f. Personnel will be accounted for by name at the conclusion of the exercise.
- g. No aggressor activity will be permitted within the Small Arms Impact Area during periods when the small arms ranges are being used.
- h. Smoke grenades, CS grenades, or any other spark-producing device will not be used when the possibility of starting a grass fire or burning vehicles and equipment exists.
- i. Smoke-producing devices or Agents CS and CN will not be used in any situation involving moving vehicles or under blackout conditions.
- j. The OIC will be sure that no aggressor personnel have live ammunition in their possession.
- k. Aggressors will dress distinctively so as to be recognized easily.
- l. Blank cartridges will not be fired at any individual at a distance of less than 40 feet.
- m. The OIC of aggressors will not carry a weapon and will not actively engage in aggressor actions. The principle function of the OIC is ensuring safety requirements listed herein, and in applicable regulations, are followed.
- n. Aggressors will not barricade or otherwise impede traffic on Fort Chaffee roads or tank trails.
- o. Trash and expended materials used in aggressor actions will be policed and removed upon completion of the exercise.

1-15. TRAINING IN THE CANTONMENT AREA.

- a. Training in the cantonment area is prohibited unless approved by the Chief, Facilities and Engineering. This area contains water and gas valves, lines, and electrical systems that are subject to

damage by vehicular traffic. Units desiring to use improved grounds as training areas will submit FS Form 105 to Commander, USAG, ATTN: ATZR-Z-FE, seven days prior to the desired date.

b. The use of the Wells Lake area for unit activities must be approved by the Recreation Services Officer.

CHAPTER 2

RESPONSIBILITIES

2-1. RANGE OFFICER. The Range Officer is responsible to the Commanding Officer, Fort Chaffee, Arkansas, for enforcing range safety measures, coordinating and scheduling ranges and range facilities when requested by units, operating and maintaining range communications, and for maintenance of small arms ranges.

a. The Range Officer will, under the direction of the Fort Chaffee Chief of Operations--

- (1) Advise the OIC of firing to be sure of the efficient operation of ranges and use of training areas. Assistance will include, but not be limited to, the inspection and/or supervision of firing to check compliance with this regulation.
- (2) Coordinate with using units for repair or replacement of range facilities.
- (3) Supervise and coordinate necessary maintenance of range facilities.
- (4) Ensure that range equipment is properly accounted for and maintained in a serviceable condition.
- (5) Ensure that range flags (scarlet streamers), targets, target materials, and range equipment are available at Range Control for issue to using units.
- (6) Report any major violations of this regulation to the Chief, Operations, or Commander, Fort Chaffee, Arkansas.
- (7) Plan and initiate necessary action to provide using units with the type range or maneuver area required.
- (8) Prepare activity schedules and other pertinent information, and submit same to Chief, Operations, for publication.
- (9) Operate a Range Operations Center to control scheduling, coordination, and maintenance of range facilities and to serve as an office of record for range data.
- (10) Coordinate with EOD for the clearing of impact areas and unexploded ammunition located elsewhere, when necessary.

b. The Range Officer is assisted in the control of range activities by assistant range officers, operations personnel, and switchboard and radio operators in behalf of the Range Officer in carrying out his responsibilities. Persons specifically designated to assist the Range Control Officer in the discharge of his duties may visit any range or training site unannounced, with no exceptions. In the event of conflict, the directives of these assistants are to be implemented immediately, and the Range Officer will be contacted to resolve the matter.

c. The Range Officer is located in Building #7102, the Range Control Office.

2-2. COMMANDERS.

a. Commanders are responsible for the safe operation of ranges and firing positions used by their units.

b. Commanders, or their designated representatives, are responsible for attending a coordination meeting with Range Control prior to using any training area and/or range.

c. Commanders of units firing ammunition or detonating explosives will designate a Position Commander and Safety Officer or NCO with assistants as required for firing activities. Commanders will be sure that these personnel have been thoroughly trained and have demonstrated a complete knowledge of safety procedures pertaining to the type weapons being fired or munitions being detonated.

d. Commanders are responsible for the police of ranges used by their units to include the filling of foxholes or other field fortifications constructed by their units and removing wire obstacles.

e. In addition to the safety briefing received at Range Control, commanders or their designated representatives are responsible for briefing their Safety Officer/NCOs, OICs, and DZSOs on their specific responsibilities prior to firing on any range or conducting airborne/airmobile operations on a DZ, River Crossing, Rappelling site, etc.

f. Prior to firing on any tank range or artillery or mortar firing positions, commanders will furnish Range Control a complete list of all personnel who have successfully completed a safety certification test. This certification roster must be signed by the commander. For additional information on testing requirements, see chapter 3, Safety.

g. A letter of certification listing Position Commanders, Safety Officers, and pilots in command is also required before a unit may fire upon the aerial gunnery ranges. This letter will contain a positive statement by the commander certifying all named individuals are qualified with weapons systems listed. Certification rosters are valid for 180 days only.

2-3. POSITION COMMANDER/OIC OF FIRING. Each commander conducting or supporting an exercise or problem on the Fort Chaffee Military Reservation will designate a qualified commissioned officer as the Position Commander/OIC. The Position Commander/OIC of mortar, artillery, tank, or helicopter gunship firing must be listed on a commander's certification roster at Range Control, dated no more than 180-days before the date of firing. This Position Commander/OIC has responsibility of the conduct of training at his range, firing position, demolition site, or training area. The duties and responsibilities of the Position Commander/OIC of firing will be supplemented by pertinent Army Regulations, Field Manuals, and Technical Manuals. These instructions from the Fort Chaffee Commander, Chief of Operations, Range Officer or the unit commander. The Position Commander/OIC will be present on the range during firing. The Position Commander will—

a. Report to Range Control at least 1 hour prior to scheduled firing to receive a range safety briefing.

b. Be responsible for equipment needed at the range and, upon the completion of firing, turn the same equipment back in. The OIC may delegate the authority for drawing and turn-in of equipment, but not the authority for the safety briefing as per paragraph 2-3(a) above.

c. Prior to firing, open the range with Range Control and record the opening with time and initials. Close the range with Range Control upon completion of firing and inspection, and again record with time and initials.

d. Be sure a copy of this regulation, the range book, and applicable publications for the weapons used are present at the range location.

e. Be sure that safety measures are taken including, but not limited to, the following:

(1) Safety officers are present during firing.

(2) Ammunition is being stored and handled properly.

(3) Soldiers have the proper equipment and are instructed on safety procedures.

(4) Necessary warning devices are used; i.e., scarlet streamer, road barriers, etc.

(5) Range regulations for the particular range are understood and followed.

(6) A "check fire" is directed when unsafe acts are observed, or when ordered to do so by the safety officer or the Fort Chaffee Range Control.

(7) Communications are established and maintained with Range Control (see chapter 4, Communications).

(8) A 100% accountability inspection of all ammunition is accomplished following completion of firing.

(9) A complete police of the range area is accomplished just prior to departure to include removal of field wire, trash, target material, expended brass, and packaging materials. (See chapter 6, Range Police and Sanitation)

(10) Range property is returned to Range Control immediately after closing the range.

2-4. SAFETY OFFICER. See chapter 3, Safety.

2-5. DZSO (DZSO/AIR FORCE COMBAT CONTROL TEAM).

a. A DZSO will be used by units whenever a DZ is active for parachute drops. For modular platform, container delivery system (CDS), and personnel drops, an Army DZSO, or Air Force Combat Control Team will

perform safety functions. An Army DZSO must be jumpmaster qualified and ranked E7 or above.

- b. DZSOs will report to Range Control for a safety brief prior to any operation.
- c. Prior to the use of any DZ, the Army DZSO or Air Force Combat Control Team will open the DZ with Range Control.
- d. The DZSO will inform Range Control when aircraft are 10 minutes out from the DZ. At this time, Range Control will ensure that the aircraft's line of flight is still clear. A "check fire" will remain in effect until the DZSO has notified Range Control that personnel and aircraft are clear of danger areas.
- e. The DZSO will maintain FM radio communications with Range Control during operations. (See chapter 4, Communications.)
- f. At no time will the DZSO change the flight pattern or route of the aircraft after it has been established with Range Control or while the aircraft is within restricted areas R2401 and R2402.
- g. Vehicles other than those required for control purposes will not be permitted on an active DZ during a parachute drop. The DZSO will be sure that the DZ is clear of other vehicles well in advance of a scheduled drop and that they remain clear until parachutes have landed. POVs are strictly forbidden on the DZ or any other range facility or location unless specifically authorized by the Range Officer.
- h. At the completion of the activity, the DZSO will close the DZ with Range Control and give requested information prior to discontinuing communications.
- i. The DZSO is responsible for the policing of the DZ and surrounding area prior to clearance.

CHAPTER 3

SAFETY

3-1. PURPOSE. These policies and procedures are established to permit the unit commander maximum flexibility in planning and conducting firing and training with minimum loss of combat realism, while ensuring maximum safety to personnel and equipment.

3-2. GENERAL.

a. AR 385-62 and AR 385-63 regulate Army-wide the firing of guided missiles, heavy rockets and ammunition for training, target practice and combat.

b. This chapter establishes policies and procedures governing the firing of field artillery, mortar, rocket, tank, recoilless rifle, and small arms ammunition on the Fort Chaffee Military Reservation. It applies to units and agencies conducting firing on Fort Chaffee.

c. Major Active Duty and Reserve Forces commanders are authorized to publish safety directives which conform to the provisions of AR 385-62 and AR 385-63, and the spirit of this regulation in order to meet the requirements of special training situations. In no case will subordinate command safety publications be less restrictive or eliminate any of the safety requirements set forth herein. Such publications should be coordinated with HQ, USAG, Fort Chaffee, ATTN: ATZR-ZOR prior to publication and implementation.

3-3. SAFETY PERSONNEL.

a. The commander, who is the principal training officer of the unit, will have overall responsibility for safety at the firing position or range.

b. Safety Officers will be designated for each firing position or range and are responsible to the OIC for the safe firing at that location. Safety Officers will not be assigned additional duties while performing the safety function, that will require leaving the firing position.

c. Personnel in the grade of E6 and above are authorized to perform the duties of Safety Officer on ranges except artillery positions, provided each Safety NCO is safety trained on the weapons being used.

d. Personnel in the grade of E6 and above are authorized to perform the duties of Safety Officer/NCO on artillery firing positions, provided the following requirements are satisfied:

(1) Each Safety Officer/NCO has been safety trained on the weapons being used.

(2) Each Safety Officer/NCO has been command safety certified and appears on the certification roster provided to the Range Office. (See Safety Testing below)

(3) Each Safety Officer/NCO has received a safety orientation/briefing from both the unit commander and Range Control prior to assuming the duties on any range facility located on Fort Chaffee.

d. For small arms ranges, one Safety Officer/NCO is required.

e. For 60mm, and 81mm mortars, one Safety Officer/NCO is required for every three firing weapons located on the firing position.

f. For 105mm artillery, one Safety Officer/NCO is required for every three firing weapons. For 155mm, 8 inch and larger artillery, one Safety Officer/NCO is required for every two weapons. On artillery firing positions, at least one Safety Officer must be a commissioned officer.

g. For tank gunnery, one Safety Officer/NCO is required for each weapon firing on the range. For aerial gunnery, one Safety Officer/NCO per six aircraft is required.

3-4. ARTILLERY/MORTAR SAFETY TESTING.

a. Prior to assuming the duties as artillery/mortar Safety Officer/NCO at Fort Chaffee, all personnel must successfully complete a comprehensive safety examination within 180 days of live firing. This test is available upon request from Range Control, Fort Chaffee.

b. Tests are to be administered by the parent unit and monitored by qualified Active Duty personnel. Artillery Safety Officers must take the entire exam; however, artillery Safety NCOs are only required to

take part II (General Safety Information) and Part III (Practical Application).

c. Certification rosters listing those personnel who have successfully completed the safety test, and in the judgement of the commander, are otherwise qualified, will be signed by the battalion or separate unit commander and submitted to Range Control prior to conducting any firing activity on Fort Chaffee.

d. Unit safety certification rosters are valid for 180 days from the date of testing.

e. Personnel listed on Command Certification Rosters are subject to spot testing by Range Control.

3-5. SAFETY OFFICER RESPONSIBILITIES.

a. At least one Safety Officer will be present in each firing position requiring a safety card, regardless of the number of weapons being used. When more than one Safety Officer is required, units will establish a safety chain of command among their safety personnel and designate one person as Senior Safety Officer. However, personnel performing the duties of safety officer will meet the requirements of this chapter.

b. The Safety Officers' duties are spelled out in detail in later paragraphs. Generally, their responsibilities include:

(1) Obtaining or verifying the proper, authorized firing position and impact area from the Range Office.

(2) Establishing an overall safety system within the firing position.

(3) Ensuring that personnel required to perform safety checks (section chiefs, fire direction officer, etc.) are properly briefed on their duties; and are using the proper materials and equipment.

(4) Ensuring strict compliance with this regulation and common sense safety rules and practices.

The Safety Officer may perform the functions required of the battery XO, Fire Direction Officer (FDO), Chief of Firing Battery, Chief of Section, or any other duty. While live firing is in progress, the Safety Officer's duties will be limited to those duties that can be performed without leaving the firing position.

3-6. SAFETY OFFICER DUTIES.

a. Before departing for the range, Position Commander/OIC, Safety Officers/NCO's will report to Range Control and receive their safety briefing. In addition to the above, Safety Officers will read, and comply with:

(1) AR 385-62 and AR 385-63.

(2) USAFACFS Reg 385-1-1.

(3) FM 6-50, chapter 15.

(4) Appropriate FMs and TMs for their weapon and ammunition.

b. Before departing for the range, the Safety Officers will be sure that the following references and items of equipment are available for use in the firing position for safety purposes:

(1) USAFACFS Reg 385-1-1.

(2) Authorized Range Safety Card (when applicable).

(3) Applicable Tabular Firing Table (artillery/mortar).

(4) Applicable Graphical Firing Table (artillery/mortar).

(5) Applicable Graphical Site Table (artillery).

(6) Fort Chaffee Map.

(7) A properly functioning and declinated aiming circle other than that used by the unit for weapon lay.

(8) A serviceable gunner's quadrant.

(9) Range flag, when applicable.

c. Before firing, artillery/mortar Safety Officers will--

(1) Verify that the Range Safety Card applies to the unit, time block, date, and firing position, and confirm any changes with the Range Office.

(2) Prepare the safety diagram. The Position Commander/OIC, Senior Safety Officer will have copies of Range Safety Cards and safety diagrams applicable to the firing position for which responsible. Other personnel performing safety duties will have copies of the appropriate safety diagrams and/or safety "T" that applies. The accuracy of safety diagrams will be compared and verified between the Safety Officers and the FDO (para 3-7).

(3) Verify that Safety Officers/NCOs are Command Certified and have the appropriate safety diagram and/or safety card.

(4) Verify that the battery weapons are in the position specified on the Range Safety Card.

(5) Verify that the referred deflection corresponding to the azimuth of fire used to compute the safety diagram is being used by all sections and the FDC.

(6) Verify that the FDC has the Range Safety Card data drawn on the firing chart/situation map, and be sure that the FDC chart reflects the impact area as being within the 03 gridline to the north, and the 05 gridline to the east.

(7) Be sure that two means of communication to Range Control are operational and that clearance to go "hot" has been obtained.

(8) Verify that the collimator and/or aiming posts are properly positioned and that the referred deflection to aiming points is correct.

(9) Verify boresight of each weapon. This step must be accomplished each time that the weapon is moved.

(10) Verify the placement of required safety stakes and/or safety tapes/chalk marks.

(11) Verify minimum quadrant elevation (Min QE) determined by the XO.

(12) Verify that the ammunition to be fired is the type specified on the Range Safety Card.

(13) Be sure the TFT being used by FDC is appropriate for the weapon and type of ammunition being fired.

(14) Verify that the visible portion of the applicable danger areas are clear of personnel forward of the firing position, plus, check with Forward Observers to be sure of clearance in the impact area. Be sure that firing does not commence until rounds can be observed visually from manned OPs or electronically with reliable radar.

(15) Verify the lay of the weapons to within one mil variation from parallel by magnetic needle, using a properly declinated second aiming circle. To take into account magnetic variation, a maximum variation of plus or minus 10 mils will be allowed between the second aiming circle and the circle used for initial lay.

d. During firing the Safety Officers/NCO will--

(1) Closely supervise the safe firing of the battery, to include proper performance of safety requirements by personnel, and elimination of unsafe conditions.

(2) Visually check for parallel laying on the azimuth of fire.

(3) Report accidents, malfunctions, erratic firings, and violations of this range regulation immediately to Range Control and then the appropriate chain of command.

(4) Be sure that only serviceable rounds of authorized ammunition are fired. This also applies to the proper, safe, charge.

(5) Be sure that the correct powder charges have been cut, check visually each firing section to ensure loading of the correct charge, and that the cannoneer is standing near the powder pit with the correct number of unused powder increments.

(6) For mortar rounds, the remaining powder charge increments must be physically counted and verified as correct before each round is fired.

(7) During low angle fire, be sure that rounds in low angle fire are not fired below Min QE, above Max QE, outside lateral deflection limits, or below Min TI: in high angle fire, rounds are not fired above Max QE, below Min QE, outside lateral deflection limits (to include modification for drift and deflection correction) or below Min TI, as specified on the safety diagram and/or safety card.

(8) Command "CHECK FIRE" when any unsafe condition exists, when directed to do so by Range Control, when communication with Range Control is lost, when any unsafe firing data is sent to the guns by FDC, and when anyone else commands "CHECK FIRE." Firing will be halted until the unsafe condition is corrected.

(9) The command "FIRE" may be given only after receiving indication from the Safety Officers/NCOs that safety checks have been completed.

(10) Examples of unsafe conditions are:

(a) Safety features of weapon not operative.

(b) Powder bags exposed to fire.

(c) Personnel smoking within 100 feet of weapons or ammunition.

(d) Improper handling of ammunition.

(e) Time fuzes previously set, and not reset to SAFE.

(f) With separate loading ammunition primer inserted before breech is closed.

(g) Failure of the cannoneer to inspect powder chamber and bore after each round fired.

(h) Failure to swab powder chamber after each round fired from weapons using separate loading ammunition.

(i) Failure to level bubbles.

(j) Failure to listen to fire commands and readbacks. Examples. FDC commands "DEFLECTION 3291" but firing section reads back "DEFLECTION 3219." FDC commands "QUADRANT 346" but firing section reads back "QUADRANT 364."

3-7. FIRE DIRECTION OFFICER. The FDO will be sure that the safety limits specified on the Range Safety Card are correctly plotted on the firing charts and that only safe fire commands are transmitted to the firing sections. The FDO, assisted by the Chief Computer, will--

a. Verify and apply registration corrections to appropriate firing charts held by other individuals performing FDC functions within the firing position, and provide registration corrections to the Safety Officers/NCOs for application to safety diagrams/cards.

b. Exercise extra caution in special situations. If a deflection difference or special corrections are sent to the firing sections, ensure that for each section the total of the announced deflections and the deflection of the gunner's aid will be within lateral safety limits. This applies to quadrant corrections and range limits as well.

3-8. PRIMARY AND SUPERVISORY RESPONSIBILITY.

a. For every safety check connected with firing, there is a soldier responsible for doing it and there is another soldier responsible for seeing that it is done properly. The person performing the safety check has primary responsibility; the soldier seeing that it is done has supervisory responsibility. In practically all cases, the supervisory responsibility rests with the chain of command. If any unsafe acts are committed, naturally the severity of any disciplinary action taken against those responsible depends on the unsafe act, the circumstances, and whether the individuals involved have primary or supervisory responsibility.

b. In order to define areas of responsibility, the following list of unsafe acts indicates who has initial responsibility for preventing the unsafe act. The list is not all encompassing but is detailed enough to indicate clearly what type firing safety responsibilities rest at which level in the chain of command.

c. UNSAFE ACT resulting in a round being fired out of safety.

NOTE: Primary responsibility for unsafe acts rest with the Safety Officer; Supervisory responsibility is a function of commanders and rest with the firing unit commander.

Initial Responsibility

- | | |
|---|-----------------------|
| (1) Unsafe DF set by gunner and fired by C/Sec. | C/Sec |
| (2) Unsafe QE set by assistant gunner and fired by C/Sec. | C/Sec |
| (3) Unsafe FZ setting set by cannoneer and fired by C/Sec. | C/Sec |
| (4) Wrong charge cut by cannoneer and fired by C/Sec. | C/Sec |
| (5) Improper boresight by gunner. | C/Sec |
| (6) Counter reset or slipping AZ Scale error by gunner. | C/Sec |
| (7) Preparation or handling ammo which results in damage to personnel or equipment. | C/Sec |
| (8) Weapon deficiencies; bad ram, bar recoil mechanism, and bad sights. | C/Sec |
| (9) Unsafe data sent by FDC. | Btry FDO |
| (10) Weapon laid out. | XO |
| (11) Intervening Crest (XO Min QE). | XO |
| (12) Incorrect Range Safety Card. | Range Officer |
| (13) Incorrect Safety Diagram. | Position Commander/SO |
| (14) Wrong firing position. | XO |
| (15) Unauthorized ammo. | XO |

Initial Responsibility

- | | |
|---------------------------------------|-----|
| (16) Suspended lot of ammo. | |
| (a) Failure to properly notify units. | ASP |
| (b) Failure to implement suspension. | XO |
| (17) Bad survey: | |
| (a) Grid of FP. | SVO |
| (b) OL. | SVO |
| (c) Declination constant. | XO |

3-9. OVERHEAD, FLANKING AND CLOSE SUPPORT FIRE.

a. Specific lots of ammunition are reserved for close-support fire. Requisitions for ammunition for these purposes will specify "FOR CLOSE SUPPORT FIRE."

b. Only lots of artillery ammunition which have not been suspended or restricted by TB 9-1300-385

will be used in training exercises involving close support of ground troops overhead or flanking fire and overhead fire attack courses. If so, it will be from the same lot number for each exercise. If lots are changed, the new lot will be fired for adjustment prior to firing over the heads of unprotected troops.

c. Personnel and vehicles will not be permitted to enter surface danger zone areas A, B, C, and E after firing has commenced.

d. Personnel will not be permitted to occupy any part of surface danger zone area D, unless they are provided with cover capable of protection from the heaviest caliber being fired, in the following cases:

(1) When any type of rocket ammunition is being fired.

(2) When 60mm, 81mm, and 4.2 inch mortar shells are being fired. (Personnel in armored vehicles may be fired over with HE or WP shells, provided armored vehicles are located 100 yards or more from the firing line)

(3) When nonboresafe fuzed shells are fired.

e. Area D will not be occupied under any conditions during direct fire.

f. Roads entering area D must be blocked with road guards who must be able to communicate with the fire control element of their unit.

g. Overhead or flanking fire by weapons other than those named above is prohibited except by special permission by the Range Officer.

3-10. SURFACE DANGER AREAS.

a. The surface danger area E for cannon firing indirect fire is that area immediately in front of the piece bounded by the deflection limits expanded right and left by 444 mils and extending forward by 300 meters for a 105mm howitzer, 350 meters for a 155mm and 8-inch howitzer, and 450 meters for a 175mm gun.

b. Surface danger area over Highway 96.

The Commander, Fort Chaffee, AR, is authorized to allow the firing of artillery over State Highway 96 with the following restrictions:

(a) The highway is required to be closed for no longer than 15 minutes at a time when a rocket or a projectile with an air burst fuze is being fired.

(b) The highway is required to be closed if ammunition not approved for overhead fire is to be fired.

(c) When the highway is required to be closed, guards will be posted outside the lateral limits of the safety fan to halt all traffic. Guards will be equipped with radio or wire communication with the Control FDC and must maintain continuous contact with the FDC.

(d) The Control FDC will notify the highway guards when to close the highway to all traffic and to again open it to traffic.

(e) In the event emergency type vehicles; i.e., ambulances, fire trucks, police cars, etc., are approaching on the highway, the guards will immediately notify FDC. The FDC will check fire the firing element to allow the emergency vehicles to proceed.

(f) Before firing, the Commander of Fort Chaffee will issue warning orders through the public news media indicating the date and time of firing and describe the boundaries of the firing area.

3-11. DIRECT FIRE WITH 90MM RECOILLESS RIFLE. Direct fire with the 90mm recoilless rifle will be conducted in accordance with FM 23-11, chapters 3 and 5.

a. There will be an OIC of firing. The duties of the OIC of firing contained in FM 23-11, chapter 3, will be complied with.

b. In addition to the OIC of firing, there will be a minimum of one Safety Officer/NCO. The Safety Officer/NCO will not be assigned any duty that will interfere with the performance of his safety duties. The duties of safety personnel will be prescribed in FM 23-11, chapter 3.

c. A reliable, experienced NCO recoilless rifle squad leader will be placed in charge of each weapon

firing. The duties of the squad leader will be as prescribed in FM 23-11, chapter 3.

d. Recoilless rifles will be fired from stationary positions on the firing line. They will be boresighted and zeroed on the day of firing.

e. Two means of communications (wire and radio) will be established between the OIC and Range Control prior to firing, and will be maintained during firing.

3-12. MORTAR SAFETY OFFICER/NCOS. The following instructions shall apply to officers and NCOs who are designated as mortar safety personnel.

a. Before departing for the range, the Safety Officer/NCO will—

(1) Read and understand:

(a) USAFACFS Reg 385-1-1.

(b) Terrain request for firing area for safety limits and coordinates of firing position.

(c) Appropriate field and technical manuals covering weapon to be fired (e.g., FM 23-90, FM 23-91 for 81mm mortar, and FM 23-93, FM 23-90 for the 107mm mortar).

(d) TM 9-1300-206, paragraph 126, care, handling, preservation, and destruction of ammunition.

(2) Coordinate with the Officer-in-Charge for procurement of the following equipment and information:

(a) Appropriate tabular firing tables.

(b) Ammunition repack cards (if used).

(c) M-2 Aiming Circle.

(d) M-45 Boresight device.

(e) Mounting grid azimuth.

b. Action taken before firing:

(1) Independently, using the M-2 aiming circle provided, verify the lay of the mortars.

(2) Verify the computing of the right and left deflection limits. (NOTE: When computing the deflection limits for the 107mm mortar, the drift must be added to the indicated reading. The drift read at the upper right hand corner of the safety fan shall be added to the right limit, and the drift read at the lower left hand corner of the safety fan will be added to the left limit. Left and right deflection limits must be computed in the above manner for each elevation, 0800, 0900, or 1065, to be fired.)

(3) Verify firing chart, plotting board (RP, Section Center, Deflection and Azimuth indicies), safety fan and safety diagram if FDC is at the firing position.

(4) Supervises the placing of safety stakes, when the FDC is not at the firing position.

(5) Inform each squad leader and gunner of the right and left deflection limits, maximum elevation and/or charge, the minimum elevation and/or charge and the minimum time settings for fuzes.

(6) Check lot numbers and weight zone markings of ammunition.

(7) Check communications to Range Control and request permission to fire.

(8) Ascertain that medical personnel are on station.

(9) Ensure mortars are safe to fire by checking the following:

(a) Mask and overhead clearance.

(b) Safety checks made on weapons and ammunition.

(c) Sights are properly seated on weapons.

(d) Appropriate road guards are posted to ensure no personnel or vehicles will enter Area D and those road guards have communication with the FDC.

(e) Mortars will not be fired over any personnel.

(12) Protect ammunition from direct sun and moisture.

(13) Obtain permission from OIC to commence firing.

c. Action during firing:

(1) Enforce safety regulations at all times.

(2) Allow no fires within 100 meters of any ammunition nor smoking within 50 meters.

(3) Check for careless handling of ammunition.

(4) Require unused charges to be placed in a closed ammunition box.

(5) Helmets will be worn by crew members when firing.

(6) Be sure personnel on firing line wear noise suppressors.

(7) Indicate to OIC when it is safe to fire.

(8) Supervise action in removal of misfire.

(9) Malfunction or misfire of ammunition (see subparagraph e below).

(10) Do not cause unnecessary delays in firing. Be sure that data commanded is within safety limits.

(11) The signal that the squad is ready to fire will be given by the Safety Officer/NCO after the squad leader has checked the mortar and announced that it is up and safe to fire. The Safety Officer/NCO will, however, at a minimum check the setting himself on the first round fired from each gun during each mission.

(12) Piece settings are to remain as last announced until subsequent command is announced by the FDC. If the command "Check Fire" is given, the gunner and assistant gunner will immediately "fall in" behind their mortar and allow no one near the mortar until cleared by the Safety Officer. The FDC will issue no further commands until instructed to do so by the OIC.

(13) Ensure that only one lot number of ammunition is fired during any one fire mission.

(14) Ensure bore is swabbed after each fire mission or each 10 rounds.

d. Actions after firing:

(1) Supervise disposal of unused propellant increments by burning at the approved burn site at grid 971-025. To ignite increments, a train of flammable materials such as excelsior, about 25 feet long and so placed that it and the powder burn in the direction from which the wind is blowing. Parallel beds of increments prepared for burning shall be no less than 150 feet apart. In repeating burning operations, care will be taken to guard against material being ignited from burning or smoldering residue, or from heat retained in the ground. Precautions shall be taken to prevent starting of fires from burning of powder. A representative from Fort Chaffee ASP will be present before propellant increment can be burned.

(2) Return unused ammunition and empty containers to appropriate agency according to post SOP.

(a) Inspect rounds for completeness.

(b) Ensure rounds are properly packed.

e. Removal of Misfires:

(1) When a misfire occurs, the gunner will immediately announce "Misfire" and after making certain that the crew members have left the gun pit, kick or jar the barrel. If the round fires, the mortar is relaid and firing is continued.

(2) If the mortar still fails to fire, the crew waits 1 minute before attempting to remove the round. At the end of 1 minute, the gunner will check the barrel for heat. (If the barrel is hot, use water or snow on the outside of the tube until it is cool enough to handle with bare hands. If water is not available, allow mortar to cool)

(3) Remove the round.

(4) After the round is removed:

(a) The assistant gunner will swab the bore.

(b) The mortar is relaid and firing is resumed.

f. Although the above instructions are directed towards the designated "Safety Officer/NCO," it is not intended to relieve the OIC and squad leaders of their inherent safety duties and responsibilities. It is the Safety Officer/NCOs duty only to ensure/check that unit personnel adhere to those responsibilities. It is imperative, therefore, that the OIC and squad leaders be equally as knowledgeable of the above safety requirements as is the designated Safety Officer/NCO.

g. Any conflict between the OIC and the designated safety personnel which cannot be resolved, will be immediately referred to Fort Chaffee Range Control Office, who shall be the final authority. No firing will be allowed until any and all problems have been resolved.

CHAPTER 4

COMMUNICATIONS

4-1. GENERAL. The Fort Chaffee Range Control Communications System consists of a range telephone system, two FM radio frequencies, one VHF net and one UHF net. All are controlled in the Range Control Office and are used for safety control and medical evacuation requests only.

a. Controlling headquarters having elements operating in any training area will establish radio contact with Range Control on the primary FM frequency of 38.50 upon entering any training area. After the initial communications check, units are required to monitor the net at all times, and make communication checks periodically, and will notify Range Control before departing the range area. Separate units operating independently must also establish communications with Range Control when operating in any training area. Units must notify Range Control when elements have left the training areas.

b. Units conducting live firing on any range, firing position, or demolition area are required to maintain two means of communication with Range Control - FM radio and field telephone. These units are required to contact Range Control over both means of communication:

- (1) Upon initial occupation of the firing position or range.
- (2) When requesting to go "HOT."
- (3) Once hourly (communications check).
- (4) When requesting to go "cold."
- (5) Prior to clearing the firing position or range.

c. In the event either means of communication fails, the Safety Officer/ NCO at the position will immediately order a "check fire" and contact Range Control.

(1) Upon notifying Range Control of a radio failure, the unit involved will not be allowed to continue firing until such time as radio communications have been reestablished with Range Control. Units will be given permission to return to a "HOT" status by Range Control only.

(2) In the event wire communications fail, Post Communications personnel will be dispatched to repair/correct the problem area. After coordination with Range Control, certain firing positions/ranges will be allowed to go "HOT", using two FM radios for communications. As in (1) above, permission to go "HOT" will be given by Range Control only.

4-2. RANGE TELEPHONE SYSTEM: This system consists of permanently installed open wire with terminals located throughout the range area. Appendix A of this regulation lists the coordinates of the telephone terminals available for communications from artillery and mortar firing positions. The purpose of this system is to provide direct and immediate contact between the Range Control Office and each individual firing position and range. The following procedures govern the use of the range wire system.

- a. Switchboards will not be connected to the range line.
- b. The range line will not be used for communication between units.
- c. Wire connected to the range wire system will be tagged at the point of connection. The tag will identify the unit, and will state the date and inclusive times the wire is to be used.
- d. Field wire from the Safety Officer or OIC location to a range line terminal will not be connected to the range line until a continuity check has been made by connecting a telephone to each end of the line. Connecting a shorted field wire line to the range line will cause the entire range line system to be shorted out.
- e. Field wire will be disconnected from the range line terminals prior to any wire-retrieving operations. This includes disconnecting the wire from the telephone at the OIC or Safety Officers location.
- f. Field wire will not be connected to the range lines until shortly prior to the OIC requesting range clearance. Wire will be removed from the range line immediately after clearing the range.

4-3. RANGE CONTROL FM RADIO NET. The radio primary frequency for Range Control is 38.50. An additional retransmission net 51.20 is also available. The following procedures govern the use of the range radio net:

a. CLEAR LANGUAGE ONLY will be used on the radio net. Unit designation, range number, or OP number will be the using unit's call sign.

b. The Range Control net will not be used for communication checks from units in Garrison. The net is for communications between Range Control and units in the field only.

c. Umpires, evaluators, and advisors will not use the net to pass administrative information to Range Control, or any other agency or unit on Fort Chaffee.

4-4. VHF AND UHF RADIO NETS.

a. Military aircraft, with the exception of those firing on Range 87, are required to contact Range Control when departing the cantonment area and must monitor a Range Control frequency whenever flying over the range areas.

b. The primary frequencies for aircraft are VHF 141.3 and UHF 242.6. FM radios are to be used only as an alternate.

4-5. RANGE CONTROL OPERATORS. The Range Control RTOs act on behalf of the Range Officer. Any additional requirements these RTOs put on units in the field will be effective immediately. Questions arising from individual units will be directed to the Range Officer. The Range Officer, or a designated representative, will be present in Building #7102 when firing is being conducted, except for those absences required to provide supervision in the field. (The Range Officer will be on call for Range 87 and will maintain an RTO in Building #7102 at all times. If the Range Officer or officer assistant must leave the building, he will do so in a vehicle equipped with a radio, maintaining two-way communications with the Range Office.)

CHAPTER 5

MEDICAL SUPPORT

5-1. UNIT RESPONSIBILITY. Commanders of units participating in any training activity outside the cantonment area of Fort Chaffee are responsible for ensuring that medical facilities consisting of a minimum of one qualified medical aidman (91B) and one evacuation vehicle (ambulance or other suitable vehicle) with litter, blankets, and first aid supplies (including splints) are available at the training site, and that personnel involved in the training know how to procure medical assistance by using unit communications. When approved by the responsible Director of Health Services, reservists who are medically qualified by their civilian occupation, but do not possess a medical military (MOS) may be stationed at firing ranges.

5-2. MEDEVAC.

a. Aeromedical evacuation will be provided, when available, from range locations to the Site Support Medical Clinic during normal duty hours. During nonfiring, nonduty hours allow 45 minutes reaction time upon receipt of the MEDEVAC request. MEDEVAC crews will be on 5-minute standby when ANY firing is being conducted on Fort Chaffee.

b. Request for MEDEVAC are to be relayed to the Range Control Officer who will, in turn, contact the MEDEVAC crew and the Site Support Medical Clinic.

c. The unit will notify Range Control by FM frequency 38.50 or 51.20 or any means available. The following information must accompany all requests:

(1) Pickup location (grid coordinates or common name).

(2) Number of patients (Both litter and Ambulatory).

(3) Urgency of mission (care should be employed in determining urgency; routine or nonemergency cases should use the ground ambulance available at the training site).

(4) Brief description of patients condition with notation of movement status; i.e., litter or ambulatory.

(5) Call sign of unit if radio is available.

(6) Manner in which LZ/DZ will be marked; e.g., smoke, light, etc.

d. Units requesting MEDEVAC must remain on the frequency in order to direct the aircraft to the LZ/DZ.

e. Radio calls for MEDEVAC have precedence over all other radio traffic. Once the Range Office receives a call for aeromedical evacuation, units engaged in live firing at Fort Chaffee will come to a cease fire status until the MEDEVAC pickup is completed and have been returned to a "HOT" status by Range Control. Range Control will notify units of a cease fire imposed due to MEDEVAC operations.

f. The presence of MEDEVAC support at Fort Chaffee does not relieve commanders of the requirement to provide ground evacuation means. Any unit found lacking the required unit medical support will be placed in a check fire status until the medical support is provided.

5-3. SITE SUPPORT DISPENSARY.

a. Site support medical facilities will be employed in emergencies in which training unit medical facilities prove inadequate, and when employment of site support facilities will result in the most rapid evacuation and treatment of injured or ill personnel.

b. Primary responsibility for medical support resides with the commander of the training unit, who will ensure that adequate means of medical support are available to his unit prior to beginning training.

c. Calls to the Range Office for medical assistance, whether MEDEVAC or ground ambulance, will be regarded as emergencies. Simulated casualty reports will not be made over Range Control radio or wire communications without special permission by the Range Officer.

d. Ground ambulances dispatched by supporting medical units or by Site Support Dispensary may report to the Range Office, Building #7102, to pick up a guide prior to departing for emergency medical

evacuations in the field, in order to prevent delays in finding evacuation sites. Training unit commanders will coordinate with supporting medical units to be sure that they understand this procedure. The Range Officer will coordinate with Site Support Dispensary personnel to ensure compliance.

CHAPTER 6

RANGE POLICE AND SANITATION

6-1. RESPONSIBILITY. Commanders of using units are responsible for policing training areas, firing positions, OPs, small arms ranges, and any other training facility that their units utilize at Fort Chaffee.

6-2. REQUIREMENTS AND RESTRICTIONS.

a. Upon completion of training, commanders will conduct a thorough police of the training facility used to ensure that no trash, ammunition boxes, ammunition, brass, or other debris has been left in the area. Prior to departure from the training facility, the OIC will contact Range Control and request a Range representative to conduct an inspection and grant clearance. If it is impossible for the inspection to be conducted prior to unit departure, or if the inspection was conducted and the state of police was found unsatisfactory, the commander will designate a responsible individual who participated in the field training to accompany Range Control personnel on a subsequent inspection prior to the unit clearing the Fort Chaffee Reservation. Units will not be allowed to clear the post until areas and training facilities used have been policed properly and inspected by Range Control personnel.

b. In the event a unit entering a training facility finds the area in a state of poor police, they will immediately contact Range Control. Any unit not reporting a poorly policed area will accept the responsibility of policing the area when they use or occupy the same.

c. Major commands training on Fort Chaffee will be assigned "common-use" areas for additional police; i.e., Fort Smith Boulevard, South Boundary Road, 1st Avenue, Highway 96, etc.

d. Field latrines will not be constructed in Training Areas 501, 502, 503, and 511 (see enclosed map of Fort Chaffee). In determining the location within the camp area for field latrines, strict adherence to FM 21-10 is mandatory. Latrines will be closed with earth when their contents reach within 1 foot of the level of the surrounding ground, in accordance with FM 21-10. Earth will be mounded to a height of 1 foot above the level of the surrounding ground, and a durable sign will be staked at the site. Signs will be made of wood or other durable material, not metal, and will be so constructed that the intent and meaning of the sign will be understood for a minimum of 1 year. Signs will state the type of sump, and will indicate the closure date. For example: "LATRINE CLOSED JUN 79." A thorough inspection is required, and necessary police will be accomplished prior to a using units departure from any area.

e. Trash and garbage will be transported by units to the sanitary fill. Trash sumps will not be dug on the reservation. Pit latrines will not be used for the disposal of kitchen or similar type trash. Kitchen sumps may be dug for liquid waste only.

f. Units are subject to recall for police purposes of any area found to be substandard or in violation of the above restrictions.

g. Portable Chemical Toilets (PCTs): PCTs should be used for bivouacs scheduled for more than 72 hours in one location. Direct the request, with number of personnel to be present for use, to Office of Facilities and Engineering, ATTN: ATZR-ZF, USAG, Fort Chaffee, AR 72905-5000.

CHAPTER 7

RANGE REQUESTS

7-1. GENERAL.

a. Requests for the use of any range training facility will be submitted to: Commander, USAG, Fort Chaffee, ATTN: Chief, Operations, Fort Chaffee, Arkansas 72905-5000. Reserve Component requests will be forwarded to the Reserve Component Coordinator (ATZR-ZRC). Requests must be in triplicate on Fort Sill (FS) Form 105. The Chief, Operations, will keep one copy, forward one copy to the Range Officer, and return the remaining copy to the unit approved or disapproved. Disapproved requests will state the reasons for disapproval, and will normally offer alternate solutions, if appropriate.

b. Requests will be submitted for the use of any training facility on Fort Chaffee including small arms ranges, artillery or mortar firing positions, observation posts, numbered training areas, drop zones, rappelling tower or site, river crossing sites, blackout road marches, and the closing of main roads.

c. "Blanket" requests for training areas will not be approved. Units must request specific training areas by number. Units will be notified if training areas are to be shared with another unit.

d. Requests must be received by the Chief of Operations or the Reserve Component Coordinator at least 60 days prior to the date the facility is requested. This will allow sufficient time to order special targets, be sure the facility is operational, schedule the range or training facility, coordinate its use; and if the request cannot be honored, it will allow time for the requestor to alter training and request other facilities.

e. The assignment of a range training facility to a unit does not include the exclusive use of the area or roads and trails within the area unless special requirements are justified and sole user authority has been approved by the Range Officer.

f. A representative from the Operations and Training Section in the advance party of each major headquarters must contact both the Chief, Operations, and Range Officer upon arrival at Fort Chaffee. At this time, range and administrative requests will be checked and reconfirmed; changes will be made, if necessary, and safety cards will be issued. Daily coordination with the Range Control Headquarters throughout the encampment is authorized and highly recommended.

7-2. FS FORM 105. Complete information is required to assist the Range Officer in coordinating and scheduling the use of range training facilities. Each request should have the name and telephone number of an officer thoroughly familiar with the planned activity. The minimum information required on FS Form 105 is:

a. Requests for artillery or mortar firing positions will include caliber and type of weapon, type fuzes and projectiles, type fire (high or low angle), location of OPs, and inclusive times of actual intended firing. NOTE: If the firing position requested has been established by organic survey resources, a copy of the survey will be furnished Range Control, and the following statement signed by the OIC of the firing activity will be typed at the bottom of the request:

"I certify that the survey which establishes the firing positions on this request was closed to an accuracy of 1:10000."

Because of the degree of accuracy, artillery firing positions will not be used for starting and closing of any survey work.

b. Requests for small arms ranges listed in chapter 10 will include type of weapons, ammunition, type target desired, and the inclusive times of actual intended firing. Moving targets must be requested in the "Remarks" section of FS Form 105.

c. Requests for tank ranges must include a list of required targets. Targets must conform to the specifications in FM 17-12-7.

d. Requests for a range training facility or area in which pyrotechnics such as smoke grenades, flares, or blanks are to be used will state the type of pyrotechnics. If demolitions are to be used, the coordinates of the demolition pits will be indicated (except on existing ranges), and the type and amount of explosives will be stated. Inclusive times of the activity will be stated.

e. The use of agents CS or CN must be approved by the Range Officer.

f. Atomic simulators will not be used without approval of the Range Officer. Requests to use atomic simulators will be submitted to the Range Officer on FS Form 105, and will include 8-place grid coordinates of the detonation point. Safety regulations outlined in appropriate regulations and/or TMs will be followed. The OIC of the detonation will report to the Range Officer at least 12 hours prior to the detonation time for final coordination.

g. Requests for range training facilities in support of an exercise which will require several training areas, maneuver areas, or bivouac areas; or which will include special activities such as blackout operations, smoke operations, chemical attacks, or aggressors activities will require the submission of an activities overlay along with the Range Request (1:25,000,1:50,000). Request and overlay must be of sufficient detail to identify terrain requirements, routes of march, location of special activities, and inclusive dates and times of desired use.

h. ENFORCED LIGHT REQUIREMENTS. Blackout drive will be used by vehicles east of Highway 96, and west of Rattlesnake Canyon Road. In an emergency situation, service drive may be used any place on the reservation. Should a scheduling conflict arise between a unit involved in night (blackout) training, priority will be determined by the Range Officer. Unit moves will continue to be coordinated with the Range Officer. Blackout operation can be accomplished in all other training areas, but must be coordinated with the Range Office 24 hours prior to operation. During JRTC rotations the entire Fort Chaffee Range will be subject to blackout conditions.

i. A completed sample FS Form 105 can be found in appendix B of this regulation.

7-3. CANCELLATIONS. The cancellation of any range request will be reported promptly to the Chief, Operations, and Range Officer when it is determined that a range training facility is not needed.

7-4. HAZARDOUS CONDITIONS. When fire hazard conditions exist, units previously granted authority to use pyrotechnics may be notified of removal of authority. Notification will be provided training element via Chief, Operations Channels.

CHAPTER 8

RECREATION

8-1. GENERAL. The use of the range for recreational activities is authorized and encouraged, subject to the provisions of this chapter and the guidelines set forth in the Arkansas Game and Fish Regulation pertaining to Fort Chaffee. Areas not authorized for recreation include impact areas, landing strips, small arms ranges, the cantonment area, and any area published in the daily/weekly bulletin or local news media as being a ground danger area, a restricted area, or an off-limits area.

a. During the heavy training periods, areas outside the cantonment area are considered off limits for recreational purposes, unless cleared through Range Control.

b. Information booths located at legal entrance points will contain information including open areas, additional restrictions, and a map of the entire range area depicting permanently closed and danger areas.

8-2. HUNTING AND FISHING.

a. A valid Arkansas hunting and fishing license is required for hunting or fishing on the Fort Chaffee Military Reservation.

b. During the seasons when Fort Chaffee is opened for deer hunting, no military vehicles will be permitted beyond the cantonment area without the express consent of the Garrison Commander.

c. An Identification card is required in addition to the Arkansas fishing license for fishing in Wells Lake.

d. Arkansas Game and Fish Commission regulations must be followed. Violators are subject to arrest and prosecution by State Game Wardens and/or Post Security personnel. All personnel entering Fort Chaffee for hunting or fishing must consult the information booths located at a legal entrance.

8-3. CAMPING AND PICNICKING.

a. Permission to park campers in the cantonment area trailer parks is given by Billeting, located in Building #1377 (phone 484-2252).

b. Requests for use of the rock house picnic area and Wells Lake Picnic area will be submitted to the Recreation Services Officer.

c. Picnicking outside of the cantonment area must be approved by the Range Officer, located in Building #7102.

d. Campfires or picnic fires are authorized subject to the following precautions:

(1) No open fires will be allowed.

(2) Fires will be confined in metal containers or in established picnic area fireplaces.

(3) An area within 15 feet must be cleared of brush and combustible material prior to lighting a fire.

(4) No fire will be left unattended.

(5) Fires will be extinguished with water, and coals will be covered with earth prior to leaving the area.

(6) Violators of the above restrictions are subject to disciplinary action, and may be barred from entering the Fort Chaffee Reservation.

e. Recreational camping is not allowed on Fort Chaffee.

CHAPTER 9

RESTRICTIONS

9-1. GENERAL. The following restrictions are imposed by the Post Commander, Fort Chaffee. These restrictions are designed for safety purposes, personnel and property.

9-2. AIRSTRIPS. Military personnel will not use designated airstrips on Fort Chaffee for assembly areas, bivouac areas, or camping areas. Vehicles will stay clear of airstrips. Driving vehicles across airstrips, for any reason is prohibited. Slit trenches, foxholes, sumps, gun positions, or other holes will not be dug within 100 feet of designated airstrips. Field communication wire will not trespass airstrips, and will be buried or placed at least 50 meters from the airstrips to eliminate hazards to operating aircraft. These wires will be marked so they can easily be seen by pilots flying into and out of the airfield. The wires will be removed at the completion of the field problem.

9-3. CAMOUFLAGE MATERIAL. No live bushes or trees, more than 3 inches in diameter, will be cut. Limbs will not be torn from trees at any time.

9-4. RANGE GATES AND FENCES.

a. Range gates will be opened upon request by training units. The only exceptions will be the gates located along Highway 96 and Fort Smith Boulevard, and the intersection of South Boundary Road and Highway 96. These gates will remain open 24 hours a day.

b. Any unit/personnel detected cutting wire on a range fence, breaking a lock on a range gate, or similarly entering or exiting the Fort Chaffee Military Reservation in an unauthorized manner will be required to repair the damages and/or pay for the destruction caused. In all cases of illegal entry, the unit commander will be required to report directly to the Chief of Operations or Range Officer. Unit may be removed from the Fort Chaffee training areas.

9-5. ARTILLERY IMPACT AREA.

a. Entrance into the Artillery Impact Area is strictly forbidden unless clearance has been obtained from the Range Officer. Violators will be issued Federal Magistrate tickets and be required to pay fines. No warning tickets will be issued for violators of this restriction.

b. Persons who have been authorized to enter the Artillery Impact Area will enter only after the area has been surface cleared by EOD or Range Control personnel. F&E maintenance personnel may be authorized and required to enter areas to perform range and road maintenance. No digging will be allowed in the artillery impact areas. The impact area buffer zone may be used for maneuvers upon request and approval by the Range Officer.

9-6. ENGINEER LAKE AND ARKANSAS RIVER. (See chapter 13, ADDITIONAL TRAINING FACILITIES, this regulation)

9-7. AVIATION CONTROL.

a. Control of aircraft based on Fort Chaffee or flying in support of activities taking place at Fort Chaffee will be coordinated through Range Control. Pilots of aircraft to be used for close-in support of range activities (such as simulated airstrikes) will be required to coordinate flight paths at the Range Office prior to conducting such flights. Army aircraft must contact Range Control prior to entering or leaving the range area east of 1st Avenue. (See paragraph 4-4)

b. Aviation personnel will read and comply with Fort Chaffee Aviation SOP.

9-8. PRIVATELY OWNED VEHICLES. Privately owned vehicles will not be operated or parked in the range area or training area while training is being conducted. Exceptions require written approval from the Range Officer.

9-9. MOVEMENT OF TRACKED VEHICLES.

a. Tactical tracked vehicles, such as M113, M60, and M110, will use the marked tank trails north of Fort Smith Boulevard or along South Boundary Road while operating west of Highway 96. Prior approval from the Range Officer is required for any tracked movement within training areas 503-530. (See map at appendix D)

b. Tactical tracked vehicles have freedom of movement east of Highway 96 with the exception of the

Impact Area and bridges which must be bypassed. Commanders must be sure tracked vehicles do not operate on bridges. Established roads and trails will be used in training areas.

c. Commanders will be sure that drivers of tracked vehicles cross Highway 96 at the Fort Smith Boulevard and South Boundary Road gates only and at 14 and 24 on Highway 96. Drivers will cross in a straight line and will not exceed 5 MPH.

d. Tracked vehicles will not travel on natural gas pipelines except to cross rights-of-way.

e. The driver of tracked vehicles may not act as the track commander. The track commander must have intercom communications with the driver. When moving tracked vehicles in a confined area or bivouac areas, a ground guide will be used. See Fort Chaffee Safety SOP.

f. See also paragraph 9-10 below.

9-10. CONVOYS CROSSING PUBLIC HIGHWAYS.

a. Tactical night moves across public highways are not authorized.

b. Single vehicles approaching public highways will cross without interrupting the public traffic flow.

c. Convoys approaching public highways will not interrupt the traffic flow. Vehicles will be directed individually across by the OIC/NOIC of the convoy. See Fort Chaffee Safety SOP.

9-11. OTHER RESTRICTIONS.

a. Arrowhead Drop Zone is off limits to vehicles, except operating in conjunction with helicopters and C130 or smaller fixed wing aircraft on the Class III tactical airstrip, but may be used by units maneuvering on foot. Gordon Drop Zone is off limits for maneuvering and for hunters.

b. Vehicles will not be driven across or parked on feedstrips and feed plots located on Fort Chaffee.

c. Unless otherwise posted, the maximum speed limits on Fort Chaffee are: 45 MPH on hard surface roads, and 35 MPH on dirt, shale, or gravel roads; however, personnel are cautioned to drive within safe limits based on vehicle characteristics and road conditions.

d. The possession and/or consumption of alcoholic beverages in the field is strictly PROHIBITED. Soldiers found with alcoholic beverages in training areas, and their unit, will be removed from the Fort Chaffee range training area. The Unit Commander will be required to report to the Fort Chaffee Chief of Operations. Continuance of training can only be authorized by the Commander, Fort Chaffee or Fort Chaffee Chief of Operations.

CHAPTER 10

SMALL ARMS RANGES

10-1. GENERAL.

- a. The Range Officer is responsible for the use, maintenance, and coordination of small arms ranges.
- b. OICs of firing will be thoroughly familiar with this regulation, AR 385-63, and with appropriate field and technical manuals pertaining to the weapons being fired.
- c. Running is not permitted on any small arms range.
- d. Using units will police ranges after use. This police will include latrines and target houses. Using units will provide toilet tissue for latrines.
- e. Fired shell casings, accessories, and packing materials such as clips, bandoleers, and boxes will be collected and returned to the ammunition depot by using units.
- f. Small arms ranges will be inspected, both before and after firing, by Range Control personnel.
- g. Firing will not be permitted on any small arms range until communications have been established in accordance with chapter 4, this regulation. A telephone operator will remain at the Range Control telephone at all times until the range is closed, at which time Range Control will be notified that firing has ceased. The using unit will provide a telephone and operator for the Control Line at each range.
- h. Firing will not be conducted on any small arms range until the scarlet streamer is flying.
- i. Units are requested to cancel ranges as soon as it has been determined that the scheduled ranges will not be used.
- j. Live fire small arms ranges will have, as a minimum, one OIC, one Safety Officer (E6 or above), and one commissioned officer for pits (when applicable).
- k. No person will enter an impact area (see Fort Chaffee map) without permission of the Range Officer. This restriction includes persons working on scheduled engineer projects. Permission to enter an impact area may be granted by the Range Officer when the entry or activity is well clear of the surface danger zone of ranges being fired and when terrain features provide cover for entering personnel.
- l. Commander will be sure that M16 rifles assigned to left-handed shooters have been modified by the attachment of the M16 brass deflectors.
- m. Under no circumstances will personnel go to the rear of the target while firing is in progress. Equipment, such as public address systems, will be pulled in as closely to the target line as possible.
- n. Personnel will not climb on target frames or carriers for any reason while firing is in progress. If the target jams and it is necessary to continue using it, the OIC of firing will cease fire until the difficulty is corrected.
- o. Personnel will not proceed forward of the firing line until weapons have been cleared and placed on the firing position or in racks with the action open.
- p. After a failure to fire, take action as prescribed in AR 385-63 and in appropriate field and technical manuals. However, in no case will a weapon which has experienced a misfire/failure to fire, be opened in less than 10 seconds. The Safety Officer or OIC of firing will immediately make physical check of weapons which malfunction to ascertain that the bore is clear before allowing the weapon to be fired again.

10-2. RANGES NO. 12 and 13 - KD.

- a. References.
 - (1) FM 23-9.
 - (2) AR 385-63.
- b. Location. Range No. 12 - 848067 inactive. Range No. 13 - grid 848066.

c. Description and Capacity.

(1) Range No. 12 has 36 targets with firing lines at 100, 200, 300, 400 and 500 yards. This range, equipped with target carriers and holders, is suitable for M14 and M16 rifle firing.

(2) Range No. 13 has 60 targets with firing lines at 100, 200, 300, 400 and 500 yards, and 20 targets at 600 yards.

d. Communications.

(1) Thirteen field telephones are required to operate either Range No. 12 or 13 (six for the pits, six for the firing lines and one for communications with Range Control). One FM radio is also required for communications with Range Control.

(2) The KD ranges have an underground communication system. Each range is arranged so that every 10 firing positions have a different circuit. Numbered terminal jacks are spaced evenly along both the pits and the firing lines. The communication line which links the rifle range with the control tower is located at a telephone drop to the rear of the range. The using unit is required to furnish telephones and operators in the pits and firing lines. The using unit is required to furnish an operator for the telephone that is wired to the Range Control Wire Network.

(3) Using units will not attempt to alter or repair the underground communication system, but will report any difficulties to the Range Officer.

e. Conduct of Ranges.

(1) The Modified Known-Distance Course C qualification for the M16A1 rifle may be fired on this range.

(2) Using units will provide a pit detail, under the supervision of a commissioned officer, for the range being used. The pit detail will report to the range 30 minutes prior to firing time. The pit officer will be sure that safety regulations are complied with, and that targets and equipment are properly handled. Targets will be pasted and returned to the target house by the using unit upon completion of firing.

f. Safety Precautions. When firing, the using unit will place barriers on the roads on either flank of the KD ranges to prohibit vehicles from proceeding beyond the firing lines. As the unit moves back to the next firing line, the roadblocks must also be moved back. Steel helmets will be worn by personnel working in the pits.

10-3. RANGE 14 - 500-1000 INCH.

a. References.

- (1) FM 23-9.
- (2) FM 23-67.
- (3) AR 385-63.

b. Location. Grid 860067

c. Description and Capacity. This range has 62 firing positions with targets at a range of 500-1000 inches, and is used to zero, familiarize and qualify with the M16, M14 and M60 machine gun.

d. Communications. The using unit will provide a telephone and telephone operator for communication with the Range Control switchboard, an FM radio is also required for communications with Range Control.

e. Conduct of Range.

(1) In order to be sure availability of targets desired, the unit should request the type of targets on their FS Form 105.

(2) The Standard Course C qualification for the M16A1 rifle may be fired on this range.

(3) Tables I through IV of the qualification for the M60 Machine Gun may be fired on this range.

10-4. RANGE NO. 21 - PISTOL.

a. References.

- (1) FM 23-35.
- (2) AR 385-63.

b. Location. Grid 844068.

c. Description and Capacity. This range has 32 firing positions with firing lines at 10, 20, 30, 40 and 50 meters from the target line. The range is equipped with mechanical devices for timed-fire exercises.

d. Communications. The using unit will provide a telephone and telephone operator for communication with the Range Control switchboard, and an FM radio for communication on the Range Control Net.

e. Conduct of Range. This range is suitable for qualification with the .38 and .45 caliber pistols. .22 caliber pistols are allowed to be fired on this range.

f. Safety Precautions.

(1) Before any personnel proceed forward of the firing line, weapons will be unloaded and placed upon the pistol stands with the slides back or cylinder open.

- (2) Additional safety instructions pertinent to the firing of the pistol are listed in FM 23-35.

10-5. RANGE NO. 22 - 1000 INCH.

a. References.

- (1) FM 23-35.
- (2) AR 385-63.

b. Location. Grid 891063.

c. Description and Capacity. This range has 41 firing positions with the target line located at a range of 500 and 1000 inches.

d. Communications. The using unit will provide one field telephone and telephone operator for communications with the Range Control Switchboard and one FM radio for communications on the Range Control Net.

e. Conduct of Range. The Standard Course C qualification for M16A1 rifle may be fired on this range.

f. Safety Precautions.

- (1) The M60 machine gun is not authorized on this range.
- (2) No personnel will be permitted forward of the firing line prior to clearing and inspecting weapons on the firing line.
- (3) No personnel will be allowed in the target house during range firing.

g. Target House Inventory. Sufficient target frames will be available to operate firing positions.

h. Police and Repair. The OIC is responsible for--

- (1) Repasting and replacing the targets in an orderly manner in the target house.
- (2) Policing the range.
- (3) Reporting operating problems to the Range Office.

10-6. RANGE NO. 23 - 1000 INCH.

- a. References. Same as Range 22.
- b. Location. Grid 865067.
- c. Description and Capacity. This range has 100 firing positions with stationary targets located 1000 inches from the firing line.
- d. Communications. The using unit will provide one telephone and telephone operator for communications with the Range Control Net.
- e. Conduct of Range. Same as listed for Range 14.
- f. Safety Precautions. Same as listed for Range 14.

10-7. RANGE NO. 24 - 500 and 1000 INCH.

- a. References. Same as Range 14.
- b. Location. Grid 817039.
- c. Description and Capacity. Same as Training Guide. This range has 100 firing positions, at ranges of 500 and 1000 inches. There is one target line and two firing lines.
- d. Communications. The unit will provide a field telephone, FM radio, and operators for communications with Range Control.
- e. Conduct of Range. Same as Range 14. Calibers larger than 7.62mm are prohibited.
- f. Safety Precautions. No personnel will be permitted forward of the firing line prior to clearing and inspecting weapons on the firing line.
- g. Target House Inventory.
 - (1) A minimum of 100 target frames with 500-inch machine gun targets will be available.
 - (2) A minimum of 100 target frames with one Course "C" rifle target per frame will be available.
- h. Police and Repair.
 - (1) The OIC will be sure targets are repasted and placed in an orderly manner in the target house.
 - (2) The OIC will be sure a good range police.
 - (3) Operating problems will be reported to the Range Officer promptly.

10-8. RANGE 25 FIELD FIRE AND NIGHT RECORD FIRE RANGE.

- a. References.
 - (1) FM 23-9.
 - (2) AR 385-63
- b. Location. Grid 833052.
- c. Description and Capacity.
- d. Communication. The using unit will provide a telephone and telephone operator for communication with the Range Control Switchboard, and an FM radio for communication on the Range Control Net.
- e. Conduct of Range.
 - (1) Personnel will be oriented to the purpose and nature of the range.
 - (2) The using unit will be responsible for the entire operation of the range, including placement of targets and retrieving the targets after use. Targets and materials are available for issue at Range Control.

f. Safety Precautions.

- (1) Right and left safety limits are marked with red and white barber poles.
- (2) No personnel will be permitted in front of the firing line prior to clearance and inspection of all weapons.
- (3) Misfires will be handled in accordance with the references listed in (a) above.

10-9. RANGE NUMBER 30 - COMBAT PISTOL QUALIFICATION COURSE:

a. References.

- (1) AR 385-63.
- (2) FM 23-35.
- (3) FM 25-7.
- (4) TM 9-1005-211-12.
- (5) TM 9-1005-206-14.

b. Location: Grid coordinates 877062.

c. Description and Capacity. Range 30 consists of a firing line 40 meters in length that can accommodate five pistol firers simultaneously. Each of the five firing lanes has a cable drawn pop-up target at distances of 10, 13, 16, 17, 23, 27 and 31 meters. Visible trails are provided in each lane for firing Table V of the combat pistol qualification course. This range is suitable for qualification with either the .22, .38 or .45 caliber pistol.

d. Communications. Using units will provide a telephone and telephone operator for communications with the Range Control Switchboard and an FM radio for communications with the Range Control Net.

e. Conduct of Range:

- (1) Tables I through V of the Combat Qualifications Course may be fired on this range.
- (2) Individuals will be briefed on the firing limits of the range and range lanes. Care will be taken to ensure firers will fire in their own lane and not aim into an adjacent lane, particularly during Table V.
- (3) No one will move forward of the firing line without the permission of the tower operator, Safety Officer, or OIC. During Table V, firers will remain on line with the firers on their right or left.

10-10. RANGE NUMBER 33 - LIVE AND PRACTICE GRENADE:

a. Reference.

- (1) FM 23-30.
- (2) TM 9-1300-206.
- (3) TM 9-1300-200.
- (4) AR 385-63.

b. Location: Grid 825031.

c. Description and Capacity. Range 33 consists of three grenade throwing practice areas and one live firing grenade course. One practice court has foxhole targets, the second a trench, and the third has building window targets. The live firing grenade course has four throwing bays constructed of cross-ties and earth.

d. Communications. The using unit will provide a telephone, FM radio, and operators for communications with Range Control.

e. Conduct of Range.

- (1) The OIC will control activity from the tower located directly behind the ready line.
- (2) An assistant instructor is required in each throwing pit.
- (3) Grenades will be thrown from one bay at a time.
- (4) Personnel may observe throwing of grenades from the observation bleachers ONLY.
- (5) Movement of personnel between the hold area and the ready line will be on command of the instructor.

f. Safety Precautions:

- (1) Only live grenades will be thrown on the live fire part of the range.
- (2) Duds will be reported to Range Control and disposed of by EOD personnel before the command for throwing the next grenade. A waiting period of 45 minutes is required before disposal. Unit personnel will not go downrange at any time.

10-11. RANGE NUMBER 35 - 1000 INCH.

- a. References. Same as Range 22.
- b. Location. Grid 865065.
- c. Description and Capacity. This range has 50 firing positions with targets at a range of 1000 inches, and is used to familiarize and qualify with the M14 and M16 rifle.
- d. Communications. The using Unit will provide one field telephone and one telephone operator for communication on the Range Field Switchboard, plus one FM radio for communications on the Range Control Net.

- e. Conduct of Range. Same as Range 14.
- f. Safety Precautions. Same as Range 14.

10-12. RANGE NO. 37 - PLATOON ATTACK COURSE.

- a. References.
 - (1) FM 7-10.
 - (2) FM 7-15.
 - (3) AR 385-63.
- b. Location. Grid 904035.
- c. Description and Capacity. Range 37 can accommodate from squad level up to one rifle company with two platoons attacking on line. The target area consists of an array of 124 electrically-operated targets and fixed positions for 12 machine gun simulators and 134 demolition pits. Also, a prepared assembly area is available.
- d. Communications. The using unit will provide a field telephone and telephone operator for communications on the Range Control Switchboard, and an FM radio for communications on the Range Control Net. In addition, two field telephones are required for communications between the control towers. Terminals for the field phones are located inside the towers.

e. Conduct of Range.

- (1) See references listed in paragraph (a) above.
- (2) Personnel will be oriented as to the purpose, characteristics of the course, and method of scoring.

f. Safety Precautions.

- (1) The OIC will ensure that a road guard is in position at the entrance gate, grid 904035 (adjacent

to Highway 96). Road guards are also required at Grids 907063 and 861069 on Fort Smith Boulevard.

- (2) A continuous blast of horns (located on each tower) will indicate an immediate check fire.
- (3) A minimum of one Safety Officer/NCO will accompany each squad during live fire.
- (4) Weapons will not be loaded until the entire squad reaches the line of departure.
- (5) Each unit will dry run the course at least once before conducting live fire.
- (6) The OIC will be in charge of the consoles located in the towers that control targets, simulators, and demolition pits.
- (7) The ammunition supply point will be located in the assembly area.

g. Coordinating Instructions:

- (1) Vehicles will be parked in the parking area.
- (2) There will never be more than six personnel located in any one control tower at any time.
- (3) The target holding mechanisms will be issued to the OIC on a hand receipt from the Range Control Officer. It is the units responsibility to pick up, transport, and install these mechanisms. Range Control will provide a supervisor to assist in the emplacement of the mechanisms.
- (4) Machine gun simulators will be issued by and returned by and returned to Training Aids, Building #2052.

10-13. RANGE 80 - SQUAD IN THE DEFENSE.

a. References.

- (1) FM 7-8.
- (2) FM 7-10.
- (3) FM 21-18.
- (4) ARTEP 7-15.
- (5) AR 385-63.

b. Location. Grid 983007.

c. Description and Capacity. Range 80 is suitable for performance of ARTEP tasks conducted in two phases. Phase I: The squad conducts a six KM forced march along a designated route. Phase II: The squad conducts live fire, defensive operations, from a designated firing line, occupies a hasty defensive position and fires at silhouettes on electrical popup targets. There are 40 electrical popup targets on the range that are operated from the range tower. Power is obtained by a 10-30 KW generator provided by the using unit. The range is suitable for M14, M16 rifle firing, M60 machinegun, M203 (TPT only) and .45 caliber pistol firing.

d. Communications. The using unit will provide a telephone and telephone operator for communications with Range Control Switchboard, and an FM radio for communications with the Range Control Net.

e. Conduct of Range.

- (1) Personnel will be oriented as to the purpose, nature of the course, and method of scoring.
- (2) During Phase I, the squad conducts a 6 km forced march along a designated route. Squad personnel carry specified weapons, equipment, and ammunition. The march terminates at an area near the control tower on Range 80, where the live fire will be conducted.
- (3) During Phase II, the squad will occupy a hasty defensive position and fire at silhouette targets. The M16A1 rifle, M60 machinegun, .45 caliber pistol, and M203 (TPT only) may be fired on this range.

(4) The ranges can be fired at night, provided the unit has proper equipment or the range is illuminated.

(5) The using unit will be responsible for the entire operation of the range, including placement of targets, and retrieving the targets after use. Targets and materials are available for issue at the Range Control Office.

(6) An AC generator - minimum of 10KW, maximum 30KW - must be furnished by the unit to operate the target mechanisms.

f. Safety Precautions.

(1) Ammunition will be issued by the control officer at an ammunition supply point.

(2) The control officer will be sure that squad members are in a safe firing position along the firing line.

10-14. RANGE NO. 84 - CALIBER .50 MACHINEGUN.

a. References.

(1) FM 23-65.

(2) AR 385-63.

b. Location. Grid 945992.

c. Description and Capacity. Range 84 is a .50 caliber machinegun range. There are three firing positions on the range that have M31A1 popup targets and one moving target 500 to 800 meters from the firing line. The "E" and "F" type targets are 200 to 1,000 meters from the firing line. The range is suitable for M60, and a .50 caliber machinegun firing primarily from ground mounts.

d. Communications. The using unit will provide a telephone and telephone operator for communications with the Range Control Switchboard, and an FM radio for communications with the Range Control Net.

(1) The using unit will be responsible for the entire operation of the range; including placement of targets, and retrieving the targets after use. Targets and materials are available for issue at Range Control.

(2) An AC generator (minimum 10KW, maximum 30KW) must be furnished by the unit to operate target mechanisms and tower.

f. Safety Precautions.

(1) Right and left safety limits are marked with red and white barber poles.

(2) Misfire procedures listed in the references in above are to be followed.

10-15. RANGE NO. 85 - 40MM GRENADE LAUNCHER, M203.

a. References.

(1) FM 23-31.

(2) TM 9-1300-206.

(3) TM 9-1330-200.

(4) AR 385-63.

b. Location. Grid 945991.

c. Description and Capacity. Range 85 is a familiarization and qualification range for the M203, 40mm grenade launcher. There are two firing lanes on the range with four firing stations in each lane. M203 training ammunition and high explosive ammunition can be fired on this range. Users can fire at window targets, bunkers or silhouette targets.

d. Communications. The using unit will provide a telephone and telephone operator for communications

through the Range Control Switchboard, and an FM radio for communications on the Range Control Net.

e. Conduct of Range.

- (1) Only high-explosive and training ammunition may be fired on this range.
- (2) Instructional firing, qualification firing, and familiarization firing may be conducted on the range.

f. Safety Precautions.

- (1) Personnel within 135 meters of a firing position will wear steel helmets.
- (2) Personnel on the range will be briefed on the danger radius of the burst of the grenade.
- (3) No one except EOD personnel will be permitted forward of the firing line at any time.
- (4) A diagram of duds will be submitted to Range Control after firing.
- (5) Misfires will be handled in accordance with the references listed in (a) above.

10-16. RANGE NO. 90 - MACHINE GUN TRANSITION.

a. References.

- (1) FM 23-67.
- (2) AR 385-63.

b. Location. Grid 855011.

c. Description and Capacity. Range 90 is a transition firing range for the M60 and .30 caliber machine gun. The range has five firing points with electrical pop-up targets at distances of 400 to 600 meters from the firing points. The targets are "E" type silhouette targets mounted on the M13A1 target mechanism. A 30 to 60 KW generator is required to operate this range provided by the using unit.

d. Communications. An FM radio and field telephone are required for communication with Range Control.

e. Conduct of Range. Table II for the 7.62mm machine gun may be fired on this range.

f. Safety Precautions.

- (1) Right and left safety limits are marked with red and white barber poles.
- (2) No personnel will be permitted in front of the firing line prior to clearance and inspection of all weapons.
- (3) Misfires will be handled in accordance with the references listed in (a) above.

10-17. RANGE NO. 92 - MACHINE GUN TECHNIQUE OF FIRE.

a. References. Same as Range 90.

b. Location. Grid 849016.

c. Description and Capacity. Range 92 is a technique of fire range for the M60 and .30 caliber machine guns. There are six firing lanes and a total of 24 firing positions on this range. Hard targets are located at distances of 400 to 900 meters from the firing line.

d. Communications. The using unit will provide a field telephone and a telephone operator for communications with the Range Control Switchboard, and an FM radio for communications with the Range Control Net.

e. Safety Precautions:

- (1) Personnel firing on positions 1-4 will fire in lane 1.

- (2) Personnel firing on positions 5-8 will fire in lane 2.
- (3) Personnel firing on positions 9-12 will fire in lane 3.
- (4) Personnel firing on positions 13-16 will fire in lane 4.
- (5) Personnel firing on positions 17-20 will fire in lane 5.
- (6) Personnel firing on positions 21-24 will fire in lane 6.

10-18. RANGE NO. 95 - SCOUT VEHICLE M151 SECTION.

a. References.

- (1) FM 7-20.
- (2) FM 23-67.
- (3) AR 385-63.
- (4) ARTEP 7-15.

b. Location. Grid 052957.

c. Description and Capacity. Range 95 is a Scout vehicular mounted M60 or .30 caliber machine gun range. Only one vehicle can negotiate the course during a live fire exercise. There are seven firing positions along a 3km course. Engagements are conducted from the halt at "E" type stationary targets located at a range of 300 to 600 meters from each firing position.

d. Communications. This range requires two FM radios for communication on the Range Control Net due to the lack of telephone lines. One radio will operate on frequency 38.50, the other on frequency 51.20.

e. Conduct of Range. This range was designed to meet the requirements of ARTEP. (See Range 95 SOP available at Range Control.)

f. Safety Precautions.

- (1) Firing will be from designated positions only.
- (2) Firing will be conducted within safety panels.
- (3) Road guards will be placed at grid coordinates 05759565 and 00959375.

CHAPTER 11

TANK RANGES

11-1. GENERAL.

- a. Tank firing will be conducted in accordance with FM 17-12 (HTF), TC 17-12-5, chapter 19 and 20; and AR 385-63.
- b. The duties and responsibilities of the OIC of firing are outlined in FM 17-12 (HTF).
- c. In addition to the OIC, there will be at least one Safety Officer/NCO on Range 20, and one Safety Officer/NCO per weapon on Ranges 86 and 88. These Safety Officer(s) sole function will be ensuring safe operations and, as such, will not be assigned any additional duties while performing as Safety Officer(s). Duties of safety personnel are outlined in FM 17-12 (HTF), and chapter 3, this regulation.
- d. A reliable, experienced tank commander, as determined by the company commander, will be placed in charge of each weapon firing.
- e. The tank crewman preliminary gunnery examination as specified in FM 17-12 (HTF), must be satisfactorily passed by all crew members before firing on the tank ranges. Each gunner must have passed the gunner's preliminary examination, and must fire subcaliber Tables I-III, prior to firing on Range 86 and 88.
- f. Tanks scheduled to fire must be properly boresighted before firing.
- g. Radio communications must be established between the OIC and each tank. Communications with Range Control will be established in accordance with chapter 4, this regulation, prior to any range going "HOT."
- h. Appropriate signal flags will be displayed at the firing control point, on all tanks, and on maneuver box flagpoles on Range 86 prior to conducting live fire. During night firing, lights will be used on the flagpoles and on the safety panels located downrange.
- i. No personnel will enter the Impact Area or go downrange without the permission of Range Control.
- j. See paragraph 9-10 for regulations governing movement of tracked vehicles on Fort Chaffee.

11-2. RANGE NO. 20 - TANK TABLES I THROUGH III (SUBCALIBER)

- a. References.
 - (1) FM 17-12 (Series).
 - (2) TM 9-2350-230-10.
 - (3) TM 9-2350-232-10.
 - (4) TC 17-12 (Series).
 - (5) ARTEP 17-55.
 - (6) AR 385-63.
- b. Location. Grid 817046.
- c. Description and capacity. Range 20 has 15 firing positions on the range with targets (to include an electrically powered moving target) located 60 meters from the firing line. The range is used for subcaliber tank firing for Tank Table I through III. The telefare device (.50 caliber) can be used.
- d. Communications.
 - (1) See paragraph 11-1.
 - (2) The using units will provide a field telephone and FM radio with operators for communications

with Range Control. Two telephones are required to establish communications between OIC and target operator.

e. Conduct of Range.

(1) Tank Table I - III may be fired on this range.

(2) In order to ensure the availability of desired targets, units should include type of target desired on their initial FS Form 105.

(3) The unit must furnish an operator for the moving target.

f. Safety Precautions. Safety precautions outlined in the FM 17-12 series and AR 385-63 must be followed. Safety Officers/NCOs will receive a safety briefing from Range Control prior to firing on the range.

11-3. RANGE NO. 86 - TANK TABLES IV THROUGH VIII.

a. References. Same as Range 20.

b. Location. Grid 001014.

c. Description and Capacity. Range 86 is for Tank Tables IV through VII A and B (day and night course) with either the M60/M1 series tank or the M551 Sheridan. The range has a 500 square meter maneuver box that will accommodate up to five tanks during both stationary and defiladed firing positions. There are six surveyed stationary firing positions located at grids 0024-0140, 0022-0140, 0021-0141, 0018-0140, 0017-0141, and 0015-0141. Stationary target boots are located in various arrays at distances from 950 to 1500 meters. Target boots are located at grids 0042-0058, 0033-0059, 0024-0059, 0019-0059, 0024-0027, 0018-0029, 0016-0031, 0017-0010, 0012-0011, and 0038-0014. There are two moving targets one located at 1000 meters and one at 1800 meters from the firing berm. The moving targets operate in a continuous mode and can be engaged the full width of the range. The movers are emplaced by F&E personnel and operated by the using unit. The target operator is not required downrange during live fire exercise. Illumination of targets for night firing is provided by the using unit with either direct or indirect illumination. The range can also be used as modified Table IX Course (Platoon live fire).

d. Communications.

(1) See Paragraph 11-1 and chapter 4.

(2) The using unit will provide a field telephone and operator for communications with the Range Control Switchboard, and an FM radio for communications with the Range Control Net. Units will contact Range Control prior to going "HOT" and prior to going "COLD." Should communications by either means be lost, the OIC and/or Safety Officer will implement an immediate check fire until such time as communications are restored.

e. Conduct of Range.

(1) Units desiring to use any range on Fort Chaffee must submit a FS Form 105 at least 60 days in advance. Number and type of targets needed (reference FM 17-12-7) must be included with range request. Use of moving targets must be requested in "Remarks" section of FS Form 105.

(2) The maximum allowed elevation is 5 degrees or 87.5 mils from the horizontal.

(3) One Safety Officer/NCO is required on each tank that is to fire.

(4) TPT ammunition only will be fired on the range.

(5) Tanks will fire at authorized, nondeflective targets only. No hard targets or artillery targets will be engaged, even though they may fall within the limits of fire as depicted by the safety panels.

(6) Units may draw targets, batteries for moving target vehicles, lights and other equipment at the Range Office, Building #7102. Using units must provide a moving target operator, POL supplies and perform all operator maintenance.

(7) Illumination for night firing can be provided by 81mm or 107mm Mortars, 105mm Artillery or searchlight.

f. Safety Precautions.

(1) The Safety Officer and OIC of firing will be sure that no firing is conducted outside the right and left safety panels. They will also be sure that firing is conducted at elevations no greater than 5 degrees or 87.5 mils.

(2) No personnel will be permitted in front of the firing line prior to clearance and inspection of all weapons.

(3) Misfires and hangfires will be handled as outlined in the appropriate TMs and AR 385-63. For equipment or ammunition malfunctions, see paragraph 1-11, this regulation.

(4) No night firing will be conducted until the aircraft warning lights located on Christmas Knob and Little White Oak Ridge are on and operational. Also, the warning lights must be activated on the flag poles of the maneuver box and on the safety panels.

(5) Safety Officer/NCOS, and the OIC, must be qualified and knowledgeable in all aspects of tank gunnery.

11-4. RANGE NO. 88 - TANK TABLE IX AND HELICOPTER AERIAL GUNNERY RANGE.

a. References. Same as Range 20.

b. Location. The control tower to Range 88 is located at grid 974955.

c. Description and Capacity. Range 88 is a dual purpose range that is used for both helicopter aerial gunnery and tank firing, Tank Table IX (Platoon Live Fire). Operation and control of the range is accomplished from the range tower located in the southwest corner of the range. Aircraft parking, refuel site, ammunition issue point and harmonization of weapons area, is located on Range 83, grid 937964. Range 88 has a 500 x 2500 meter square maneuver area that will accommodate one to four tanks in the conduct of Table IX. Both hard and soft targets are located at ranges of 400 meters to 3000 meters. The start line is marked with red and white panels, and the cease fire line is marked with yellow and white panels. Illumination of targets for night firing is provided by the using unit with either direct or indirect illumination.

d. Communications. Same as Range 20.

e. Conduct of Range.

(1) Units desiring to use any range on Fort Chaffee must submit a FS Form 105 at least 60 days in advance. Number and type of targets needed (reference FM 17-12-7) must be included with range request.

(2) Units may draw targets, batteries, lights and other equipment at the Range Office, Building # 7102.

(3) Illumination for night firing can be provided by 107mm Mortars, 105mm Artillery or searchlight.

f. Safety Precautions.

(1) The maximum allowable elevation is five degrees or 87.5 mils from the horizontal.

(2) An administrative vehicle with a Safety Officer must accompany the firing vehicles downrange to control the firing.

(3) TPT type ammunition only will be fired on Fort Chaffee.

(4) Tanks will fire only at authorized, non-deflective targets. No hard targets or artillery targets will be engaged, even though these may fall within the safety limits.

(5) Cross-range firing from left to right is limited by the two safety panels marking the right firing limits. If only one panel is visible to the firing crew, no firing will be oriented to the right of that panel. If both are visible to the firing crew, no firing will be oriented to the right of the farther panel.

(6) No night firing will be conducted without safety lights marking the safety panels. The aircraft warning lights on Christmas Knob and Little White Oak Ridge must also be on and operational.

(7) Misfires and hangfires will be handled as outlined in the appropriate FMs, TMs and AR 385-63. Additional safety precautions outlined in those manuals listed as references are applicable. For equipment and ammunition malfunctions, see paragraph 1-11, this regulation.

CHAPTER 12

AERIAL RANGES

12-1. GENERAL. Units training on the Aerial Gunnery Ranges located on Fort Chaffee must be thoroughly familiar with the particular Fort Chaffee Range Policy Statement, Fort Chaffee Aviation SOP, Fort Chaffee Preaccident Plan, and applicable publications for the type aircraft and ammunition. The following paragraphs are a brief description only and, as such, are not meant to be an inclusive listing of requirements for operation of the aerial ranges. Units requesting use of the ranges will be required to be thoroughly familiar with the SOP of the range being requested.

12-2. RANGE NO. 87 - AIR TO GROUND FIGHTER RANGE.

a. Reference.

- (1) AFM 50-46.
- (2) 188th Tactical Fighter Group SOP.
- (3) AR 385-63.

b. Location. Grid 000014.

c. Conduct of Range. The fighter range will be conducted in accordance with AFM 50-46 and the 188th SOP. Additional information may be obtained by contacting the 188th Tactical Fighter Group, telephone (501) 646-1601 or Autovon 962-2141 and ask for 646-1601.

d. Use of Range. Units desiring to use the range should coordinate with the 188th TFG. AUTOVON 962-2605.

e. Areas Off-Limits During Firing:

(1) Training Areas 555, and 562 cannot be occupied during the time Range 87 is conducting live fire. In addition, that area south of the 03 East-West gridline, and east of Marietta Church Road will not be occupied.

(2) The Artillery and Mortar Impact Area is off-limits at all times except when permission to enter has been obtained from the Range Officer. Personnel entering the Impact Area must be accompanied by EOD personnel at all times.

12-3. RANGE NO. 88 - HELICOPTER AERIAL GUNNERY RANGE.

a. Purpose. To establish and augment the range procedures and safety criteria for firing live ammunition from Army aircraft at Fort Chaffee, Arkansas.

b. Description and Capacity. Range 88 is a dual purpose range that is used for both helicopter aerial gunnery and tank firing, Tank Table IX (Platoon live fire). Operation and control of the range is accomplished from the range tower located in the southwest corner of the range. Aircraft parking, refuel site, ammunition issue point and harmonization of weapons area, is located on Range 83, grid 937964. Range 88 has a 500 x 2500 meter square maneuver area that will accommodate one to four tanks in the conduct of Table IX. Both hard and soft targets are located at ranges of 400 meters to 3000 meters. The start line is marked with red and white panels, and the cease fire line is marked with yellow and white panels. Illumination of targets for night firing is provided by the using unit with either direct or indirect illumination.

c. Scope. This section is applicable to aircraft range firing at Fort Chaffee. Specific procedures for each weapons systems are indicated when required.

d. Location. Grid 975955.

e. Reference:

- (1) AR 385-62.
- (2) AR 385-63.
- (3) TM 9-1010-207-12.

- (4) TM 9-1090-202-12.
- (5) TM 55-1520-210-10.
- (6) TM 55-1520-221-10.
- (7) FM 23-67.
- (8) Fort Chaffee Policy Statement for Aerial Gunnery.

f. Responsibilities.

- (1) Officer in Charge (OIC). Supervision of range personnel and activities.
- (2) Range Safety Officer. Supervision and responsibility for safety aspects associated with conduct of the range.
- (3) Instructor Pilot. Operation of aircraft and weapons system in accordance with procedures and safety precautions prescribed herein and in applicable references.
- (4) Radio/Telephone Operator. Maintain continuous communications with Range Control and assist the RSO, as directed.
- (5) Senior Armorer. Supervision of arming/disarming operations conducted.

g. Communications. The Range Safety Officer must have two-way radio communications with both Range Control and firing aircraft. Using units must also provide a telephone and telephone operator either at the control tower or the rearming point at Range 83.

h. Safety.

- (1) Range flags, range markers, road barriers, and range workers will be in place prior to requesting to go "HOT."
 - (a) Start fireline - Marked with red and white panels and barrels.
 - (b) Cease fireline - Marked with yellow and white panels and barrels.
 - (c) Left limit of firing lane - Marked by southern base of Devil's Backbone Ridge.
 - (d) Right limit of firing lane - Marked with white panels and barrels extending from the right side of the start fireline to grid 986962, continually marked from grid 997966 by ridge line ending at cease-fire line.
- (2) Parking areas.
 - (a) Aircraft parking areas will be marked.
 - (b) Military vehicles will be unloaded and parked in designated areas away from aircraft operations whenever possible.
- (3) Weather.
 - (a) Minimum visibility is one nautical mile.
 - (b) Ceiling minimum is clear of clouds and commensurate with the table to be fired.
 - (c) Wind limitations are in accordance with local flying regulations and the judgement of the OIC.
- (4) Operational aircraft will have a minimum of one radio in two-way radio communication with the control tower. In the event of radio failure in the tower, the OIC may control operations from the air.
- (5) Aircraft will not operate with unsecure equipment in the cargo and/or pilot compartment.
- (6) Passengers or observers not engaged in a course of instruction will not be carried in aircraft on the range unless approved individually by the OIC.

(7) Armament systems must be secured enroute to and from the range.

(8) Hovering turns will not be made if it results in pointing loaded weapons at personnel or aircraft.

(9) At the discretion of the flight commander, landings may be made to the firing line in a direction other than downrange if the wind conditions make a downrange landing unsafe.

(10) Additional safety precautions are included in the Range SOP, Aviation SOP, and in applicable regulations.

i. Range Facilities.

(1) A control tower is located on the southern-most point of the start fireline. Positive control over range activities is exercised from the control tower.

(2) Aircraft parking and refueling areas are located on Range 83, and are utilized by aircraft not actively engaged in training. There are no parking areas or refueling areas located on Range 88.

(3) Ammunition areas are located on Range 83 adjacent to parking areas.

(4) Targets consisting of barrels and car/APC bodies are located on the range.

j. Conduct of Range.

(1) One or more aircraft will overfly the entire range area prior to firing to ensure that barriers are closed, that there are no personnel or vehicles in the danger area, and that start and cease firelines are free of any obstructions.

(2) The RSO will establish radio contact with aircraft operating on the range, and with Range Control prior to going "HOT."

(3) After a "HOT" status has been obtained from Range Control, aircraft will request permission from the control tower to fire from the firing line.

(4) Two, and only two, aircraft may be cleared to conduct hovering and bobbing fire simultaneously from lateral positions.

(5) Prior to reaching the stop fireline, the off, safe, armed switch will be placed in the SAFE position, and a turn short of the turnaround line initiated.

(6) Aircraft will clear the range surface danger area by the most direct route with forced landing areas available.

12-4. RANGE NO. 99 - NAP-OF-THE-EARTH (NOE) GUNNERY.

a. References. Same as Range 88. Units will ensure that personnel training on the range are thoroughly familiar with the Aerial Gunnery Policy Statement.

b. Location. Grid 041021.

c. Description and Capacity. Range 99 is a Nap-Of-The-Earth (NOE) gunnery range. There are three firing points on this range with five positions labeled in series "A" through "E." Up to three aircraft per firing order may negotiate the range. An assortment of hard targets are located throughout the Impact Area. The terrain on Range 99 provides aircraft the opportunity to mask, hover and engage targets using NOE techniques. This range can also be used for door gunner familiarization.

d. Communications. The using unit will provide a telephone and telephone operator for communications with the Range Control Switchboard, and an FM radio for communications with the Range Control Net. The telephone will be located at the designated rearm point, while the FM radio will be located in the Range Safety Officer's (RSO) aircraft. The RSO will also maintain continuous radio contact with aircraft operating on the range. If, at any time, any of the above mentioned means of communications fail, the RSO will call an immediate "check fire" until communications are restored.

e. Conduct of Range.

(1) One or more aircraft will overfly the entire range prior to firing to ensure that no personnel or vehicles are in the danger area.

(2) A command and control aircraft with the RSO on board will be airborne during range firing. This aircraft will be positioned so as to exercise positive control over aircraft. The RSO will maintain radio contact with Range Control from this aircraft.

(3) Aircraft rearming will be conducted in the vicinity of four concrete pads at grid 002028. Extreme caution and absolute aircraft control will be observed at the rearm point. Field rearming points may be coordinated with Range Control on a case-by-case basis. Field telephone communications with Range Control is required at the rearming point.

(4) Refueling will normally be conducted at the Fort Chaffee Army Airfield. Field refueling areas may be coordinated with Range Control. Field telephone communications with Range Control are required from each refueling area.

(5) Attack and scout aircraft may be cleared by the RSO for simultaneous firing from lateral positions.

(6) Prior to departing each firing position, the switch will be in the "SAFE" position. Aircraft will then move to the next position and request to go switches "HOT" when in place over the 55-gallon barrel marking the firing positions.

(7) Upon completion of firing, unused ammunition will be returned to the ASP. Field storage of ammunition is not authorized on Fort Chaffee.

(8) Prior to departing the area, the RSO will ensure a proper police and contact Range Control to clear.

12-5. LIVE FIRE EXERCISE SAFETY.

a. General Safety Provisions:

(1) The live fire area and Combined Arms Live Fire Exercise (CALFEX) area located along the artillery impact area is free of administrative safety markers. There are no towers, range flags, flashing lights, limit markers, barber poles, firing lanes, or target berms. Each OC, commander and/or individual soldier is responsible for the safe operation of his weapon/weapons system.

(2) Anyone observing a life threatening or potentially life threatening act may initiate a "cease fire" or "cease fire freeze." Personnel will be oriented as to the purpose, and characteristics of the live fire exercise or CALFEX. The OCs, Commanders/Safety Officers/NCOs and soldiers should be thoroughly knowledgeable of the entire operation.

(3) Headquarters Tactical Operations Center (TOC) (EMC) is responsible for maintaining constant communication with range control during the LFX/CALFEX. After each LFX exercise, Commanders/OCs/Safety Officers will ensure live munitions are expended. No individual soldier is to possess live munitions after the live fire exercise is completed. Positive control of live munitions is required.

(4) Direct fire must provide unobstructed fields of fire on positively identified targets. Ground targets during LFX will consist of plywood silhouettes depicting vehicles and E-type personnel targets.

12-6. OVERHEAD FIRE.

a. The following weapons/ammunition will not be fired overhead of unprotected troops:

- (1) Hand-held or shoulder-fired weapons.
- (2) Tank main gun.
- (3) 20mm/30mm/40mm weapons.
- (4) Rockets, missiles, and rocket-assisted projectiles.
- (5) Flex-mounted machine guns.
- (6) Mortars.
- (7) Recoilless rifles.

b. The following ammunition requires prior clearance before firing over the heads of troops.

- (1) 105mm.
- (2) 155mm.
- (3) 8 inch.
- (4) All fuses.

12-7. INDIRECT FIRE SAFETY PROCEDURES.

General. Indirect fire operation during the LFX/CALEX will provide a unique opportunity for indirect fire support team to operate in a "near combat" environment.

(1) Aspects of indirect fire safety during the LFX are unit chain of command functions. Unit Commanders are responsible for ensuring that the safety certified personnel, required by AR 385-63, para 11-1, are present during firing.

(2) There are fixed, predetermined firing positions located throughout the Fort Chaffee range area. Units may utilize these positions or select other positions that are tactically sound for LFX, but must provide survey control. All rounds must impact in the artillery impact area.

(3) Safety data, to include minimum quadrant elevation (QE), minimum fuze setting, and left and right deflection limits, will be computed for each firing battery location, when firing from an undetermined firing position.

(4) The minimum safe range line will be established 1000 meters forward of the front line of troops for all shell/fuze combinations, except illumination, for low angle fire, 1200 meters high angle.

(5) Illumination missions may be fired within 500 meters of the forward line of troops. Safety data, including minimum/maximum QE, minimum fuze setting, and left and right deflection limits, will be computed.

(6) Survey. Survey of gun positions must be accomplished prior to firing from each position. Survey must include direction and location, survey may be established by the survey section or any other method listed in FM 6-50, chapter 6, dated March 1983.

(7) Registration. At least two rounds should be fired for registration. Targets should be selected in the center or the impact area. If no registration is fired meteorological and velocity error (MET+VE) corrections will be applied. At least two rounds will be fired to validate the (MET+VE) corrections.

CHAPTER 13

ADDITIONAL TRAINING FACILITIES

13-1. GENERAL. This chapter includes those training ranges and facilities not identified with the preceding classifications. Unless otherwise stated, the requirements set forth in chapters 2-6 of this regulation apply to all facilities in this section. Additional information concerning the facilities herein, may be obtained by contacting the Range Control Office, Building #7102.

13-2. RANGE NO. 1 - SUBCALIBER TRAINING RANGE.

a. References:

- (1) TM 9-1315-249-12&P.
- (2) TM 9-6920-361-13&P.
- (3) AR 385-63.
- (4) Range 1 SOP.

b. Location. Grid 834062.

c. Description and Capacity. Range 1 is a subcaliber range for the 81mm mortar employing the 81mm sabot (inert) M1 round. The 22mm subcaliber practice cartridge may also be used on this range. There are four firing positions, four observation points and ten surveyed targets/reference points on the range.

d. Communications. The using unit will provide one field telephone, FM radio, and operators for communications with Range Control.

e. Conduct of Range.

(1) The using unit will be responsible for the complete operation of the range. After firing, duds will be marked and a schematic map will be given to the Range Office. Cartridges M181 and M182 for the 14.5mm Trainer will not be fired on the range. The OIC will be issued targets from Range Control and will be responsible for their return.

(2) Range Safety Cards will be picked up at the Range Control Office prior to use of the range.

f. Safety.

- (1) Firing will be conducted from designated firing positions only.
- (2) Firing will be within the designated limits.
- (3) Personnel will not pick up duds. EOD will dispose of all duds.

g. Coordinating Instructions.

(1) Special Grid Map, 1:50,000, is available for issue at Training Aids. Range Control has limited supply available for issue.

(2) 81mm SABOT, 22mm practice cartridge, and 14.5mm field artillery trainers are the only authorized ammunition for use on Range 1.

13-3. RANGE NO. 2 - TOW/DRAGON TRACKING RANGE.

a. References.

- (1) AR 385-62.
- (2) TM 9-1425-470-12-HR.
- (3) TM 9-6920-484-12.
- (4) FM 23-34, Sep 87.

(5) TC 23-24.

b. Location. Grid 830098.

c. Description and Capacity. Range 2, a tow dragon tracking range, uses an infrared electronic simulator device as the target source. This is mounted on a jeep which is driven back and forth on roads located at distances of 500 meters and 1000 meters from the firing line. There are 12 firing positions on the range and 12 static prepared defensive positions located to the rear of the firing line.

d. Communications. Using units will provide either a telephone and telephone operator or a FM radio with operator for communications with Range Control.

e. Conduct of Range.

(1) The OIC has overall responsibility of the range and will assign, coordinate, and supervise the firing line. Coaches may be appointed to instruct and assist the gunners.

(2) No personnel or livestock will be permitted within 5 meters of the infrared target source while in operation. The driver of the target vehicle must wear protective goggles, or otherwise be protected from indirect viewing of the source.

(3) The OIC must be a commissioned officer, and Safety Officers/Personnel must be in the grade of E-6 or above.

(4) Backblast simulators will be used for prescribed procedures only.

13-4. RANGE NO. 17 - GAS CHAMBER.

a. References.

(1) FM 3-10.

(2) FM 3-10-B.

b. Location. Grid 834065.

c. Description and Capacity. Range 17 is a one building/two room gas chamber. Each room has a capacity to train 25 combat equipped personnel. CN/CS gas capsules are authorized for use on this range.

d. Communications. The using unit will provide a telephone and telephone operator for communications with Range Control.

e. Safety Precautions. An officer/NCO who has received specific, formal training in the proper conduct of a gas chamber will be present during gas chamber exercises.

13-5. RANGE NO. 69 - INDIRECT FIRE TRAINING RANGE.

a. Reference:

(1) AR 385-63.

(2) TM 9-6920-361-13 and P.

(3) FM 25-7.

b. Location: Grid 974007.

c. Description and capacity. Range 69 is a subcaliber range for training in indirect firing procedures. Training for the 81mm mortar system is accomplished with the 81mm sabot (INERT) M1 round while the M31 trainer is used for training on the 105mm, 155mm and 8 inch howitzers. The 22mm sub-caliber device may also be used. This range has three firing positions, two observation points, one tower, two orientating stations and two reference points located in the impact area. The scale model mock tower and crossroads used for targets provide added training realism. Targets can be placed at any distance up to 500 meters from the firing line.

d. Communications. The using unit will provide one telephone, one FM radio, and operators for communications with Range Control. A telephone drop is located at coordinates 977015.

e. Conduct of Range.

- (1) Range safety cards, range SOP and range flag will be picked up at Range Control prior to utilization of the range. A 1:5000 scaled map is also available.
- (2) Units are responsible for conduct of the range. The M31 artillery trainer may be utilized with inbore device or mounted upon a tripod.

f. Safety.

- (1) Firing will be conducted from marked firing positions only.
- (2) Firing will be within the designated limits.
- (3) Personnel will not enter the target area or pick up duds. EOD will dispose of duds.

13-6. RANGE NO. 70 - EXPLOSIVE DEMOLITION RANGE.

a. Reference.

- (1) AR 385-63.
- (2) TM 9-1300-206.
- (3) TM 9-1300-214.
- (4) FM 5-25.
- (5) Pertinent EOD publications.

b. Location. Grid 964004.

c. Description and Capacity.

- (1) The demolition area is marked by safety triangles, and is designed for use by one squad.
- (2) Eighty pounds of explosives is the maximum on one surface shot.
- (3) Two hundred pounds of explosives is the maximum on one subsurface shot.

d. Communications.

- (1) The using unit will provide one telephone, one FM radio, and operators for communications with Range Control.
- (2) Units must notify Range Control five minutes before each shot or impending blast and must notify Range Control of each shot immediately afterward.

e. Conduct of Range.

- (1) Units desiring use of the range for explosive demolition training may obtain use of the range by contacting the Range Office and submitting FS Form 105.
- (2) The using unit is responsible for the police of the range.
- (3) Personnel on the range must be in the bunker provided during detonations.

f. Safety Precautions.

- (1) Immediately upon arrival at the range, a thorough reconnoissance of Training Area 543 will be conducted to ensure no personnel are present.
- (2) The Safety Officer will be in charge of safety aspects associated with preparation, placing, and firing of the demolition charges.
- (3) Misfires will be handled in accordance with FM 5-25. EOD personnel may be contacted by calling Range Control.

13-7. RANGE NO. 71 - EXPLOSIVE DEMOLITION RANGE.

a. References. Same as Range 70.

b. Location. Grid 937967.

c. Description and Capacity.

(1) The demolition area is marked by safety triangles and is designed for use by one unit only.

(2) Ten pounds of explosives is the maximum on one surface shot.

(3) Thirty pounds of explosives is the maximum on one subsurface shot.

d. Communications. Same as Range 70.

e. Conduct of Range. Same as Range 70.

f. Safety Precautions.

(1) All personnel on the range must be inside the bunker provided during detonations.

(2) During the use of the range, road guards must be positioned at grids 936966 and 935974 to ensure personnel are not allowed within 300 meters of the demolition site. Road guards must have communications with the Range Safety Officer.

(3) The Safety Officer will not divide safety responsibility for the preparation, placing, and firing of demolition charges.

(4) Misfires will be handled in accordance with FM 5-25. EOD personnel may be contacted by calling Range Control.

13-8. RANGE NO. 82 - TOW/DRAGON LIVE FIRE.

a. Reference. Same as Range 2.

b. Location. Grid 977008.

c. Description and Capacity. Range 82 is a TOW/DRAGON live fire range. The firing line (approximately 50 meters in length) can accommodate ground, vehicular or track mounted weapons. Two Dragon targets are located at distances of 600 and 700 meters. Five TOW targets are located at distances of 2400, 2600, 2800, and 2950 meters from the firing line. Only one weapon may be fired at a time.

d. Communications. Using units will provide a telephone and telephone operator for communications with the Range Control Switchboard and an FM radio for communications with the Range Control Net. Telephone drops are located at coordinates 977015 and 980012.

e. Safety Precautions.

(1) The Safety Officer is responsible for enforcing the back blast area. The primary danger area and Caution Area 2 will be kept clear of personnel during firing. A diagram of the back blast area will be issued to the Safety Officer by Range Control during the safety briefing.

(2) Caution Area 1 is an area extending 50 meters to each side of the weapon. Personnel occupying this area are required to wear hearing protection. The range tower and the bleachers are located within Caution Area 1.

(3) The entrance to the range and the trail entering from the east must be guarded to ensure vehicles or personnel will not enter the back blast area.

13-9. RANGE NO. 83 - 105MM HOWITZER, 90MM RECOILLESS RIFLE, AND COMBAT ENGINEER VEHICLE (CEV).

a. Reference.

(1) FM 23-11.

(2) AR 385-63.

b. Location. Grid 937964.

c. Description and Capacity. Range 83 is a multi-purpose range that is used for 105mm howitzer direct firing, CEV firing, 90mm recoilless rifle firing and gunship harmonization. The range is equipped with a moving target located 600 meters from the firing line and a target array of both soft and hard targets located at distances of 650 to 3000 meters throughout the target area. The LAW may be fired on this range also.

(1) The firing line will accommodate six 105mm howitzers, six 90mm, or three CEVs.

(2) A moving target is available at approximately 600 meters for subcaliber or machine gun ammunition.

d. Communications. The using unit will provide a telephone and telephone operator for communications with the Range Control Switchboard, and an FM radio for communications with the Range Control Net.

e. Conduct of Range.

(1) The using unit is responsible for the conduct of the range.

(2) This range may be used to fire Qualification Courses for 90mm and CEV, plus direct fire familiarization with 105mm howitzers.

f. Safety Precautions.

(1) A Range Safety Card is required for firing the 105mm howitzer on the range.

(2) The OIC will be sure that personnel are thoroughly familiar with the lateral safety limits as marked on the range.

(3) The OIC and Safety Officer will be sure that applicable barriers and warning flags are in position.

13-10. ARROWHEAD DROP ZONE/LANDING ZONE AND GORDON DROP ZONE.

a. Arrowhead DZ is approximately 3,500 meters long and 1,100 meters wide, with the long axis lying east to west. Aircraft up to and including C-141 may be used on the DZ. Single or double exit aircraft will not drop more than 39 parachutists per stick. The Arrowhead LZ is 4500 ft long, with a 500 ft over run at each end, and 60 ft wide with a 10 ft shoulder on each side.

b. Gordon DZ is approximately 1,200 meters long and 900 meters wide, with the long axis lying north and south. Gordon is used for helicopter jumps only.

c. The Drop Zone Safety Officer (DZSO) will maintain two-way radio communications with the drop aircraft and Range Control. He will also utilize visual signals such as panels, flares, marking lights, or smoke as a means of communicating with the drop aircraft. The DZSO will be briefed by Range Control at least 1 hour prior to drop time. Range Control will be notified when personnel and equipment have cleared the DZs.

d. No other area on Fort Chaffee may be utilized for drops unless coordinated with the Fort Chaffee Range Officer.

e. See applicable Fort Chaffee SOPs for use of the C-130 airstrip on Arrowhead DZ.

13-11. COMPASS COURSE. There are three compass courses located on Fort Chaffee. Course No. 1 is located in Training Areas 506 and 507; Course No.2 is located in Training Areas 508 and 509; and Course No. 3 is located in Training Area 514. Courses 1 and 2 are composed of five stations each, A through E. Course 3 is composed of 18 points, A through R, with three starting points. Exact locations of all points are available at Range Control.

13-12. RIVER CROSSING/BRIDGE BUILDING SITES.

a. Reference.

(1) FM 31-60.

(2) TM-5-210.

b. Location. Engineer Lake grid 988046; Arkansas River Site grid 855125.

c. Description and Capacity. Fort Chaffee has two river crossings/bridge building sites.

(1) Engineer Lake is approved for both types of operations. The lake covers approximately 45 acres, with a suitable staging area on the northern bank.

(2) The Arkansas River Site may also be used for both types of operations. The river is approximately 300 meters wide at the crossing site.

d. Communications. FM radio communications are required between the Site Safety Officer and Range Control. Radios are to be furnished by the using units. Units must also provide a radio and radio operator on Lock and Dam 13, grid square 8212, when conducting operations on the Arkansas River.

e. Conduct of Range.

(1) Each unit must obtain the approval of the Corps of Engineers prior to conducting operations on the river.

(2) Each unit will conduct a police of either area upon completion of training.

f. Safety Precautions.

(1) Precautions listed in references will be adhered to.

(2) Using units will provide one Safety Officer/NCO for each separate operation. Safety Officers will receive a briefing from the Range Office prior to training.

13-13. RAPPELLING TOWER.

a. The rappelling tower is located within the cantonment area, at the corner of 31st and Hospital Streets. The tower is 40 feet tall with two lanes on the cliff side and one lane on the simulated helicopter side.

b. Using units are required to have a qualified medic on site and must maintain FM radio communications with Range Control.

c. Rappel instructors must meet Fort Chaffee certification requirements before use of the tower. Units are required to coordinate with Range Control to certify instructors. Two days are usually necessary to fulfill certification requirements.

13-14. HELICOPTER NOE TRAINING COURSE.

a. Nap-of-the Earth Courses have been established over the Ozark National Forest for use by Fort Chaffee.

b. During AT training periods, units should coordinate with the Airfield Commander for use of the course.

c. During non-AT periods, units will coordinate requests for use of the Ozark NOE Course with the Range Control Officer.

d. Nap-of-the Earth flights are authorized over the Fort Chaffee range areas commensurate with approval of Range Officer. As per normal flights, aircraft must maintain communications with Range Control when flying east of 1st Avenue.

APPENDIX A

COORDINATES OF RANGE LINE TERMINALS

Following are the coordinates of the Range Line telephone terminals available for artillery and mortar firing on Fort Chaffee. In addition, fixed firing ranges have phone terminals. For locations of other terminals in the training areas, contact Range Control.

9081-0631	9495-0344	0380-0418
9212-0626	9450-0350	0428-0417
9225-0660	9416-0300	0449-0416
9272-0626	9380-0343	0501-0414
9284-0606	9366-0371	0528-0410
9295-0584	9279-0350	0584-0399
9311-0600	9293-0354	0604-0140
9331-0550	9200-0355	0594-0126
9361-0525	9206-0399	0590-0045
9415-0533	9206-0460	0589-0021
9466-0506	9247-0509	0029-0440
9490-0505	9293-0488	0022-0379
9542-0552	9322-0471	0020-0345
9582-0576	9476-0629	0016-0285
9623-0551	9144-0274	0073-0265
9665-0560	9185-0274	0014-0242
9617-0492	9812-0485	0014-0195
9665-0477	9840-0414	0025-0143
9668-0445	9849-0496	9900-0088
9682-0481	9869-0501	9900-0069
9760-0352	9904-0508	9902-0040
9736-0332	9931-0514	9769-0253
9706-0335	9981-0533	9731-0270
9619-0341	0013-0517	9756-0156
9526-0341	0025-0481	9800-0129
9532-0372	0223-0496	9656-0100
9517-0344	0270-0491	9511-0050
		9634-0089

APPENDIX B

RANGE REQUEST (FS FORM 105)

RANGE REQUEST

To: USAG, FORT CHAFFEE ATZR-ZO, FT. CHAFFEE, AR 72905		From: CDR, USAR or ARNG UNIT Phone:		Request for Week Ending: 7 SEP 88
Type of Range Requested: SMALL ARMS		Original:	Change Nr:	Date: 17 March 88
Date, Time	Range or Firing Points	Observation Posts	Weapon, Ammunition, Fuze, Type of Fire	Additional Information
SAT 7 SEP 88 1300-1500	MB-2		45 Cal Pistol	10 Firers
SAT 7 SEP 88 1300-1500	Range 84		.50 CAL Machine Gun	40 Firers REQUEST MOVING TARGET
Point of Contact:		CPT John Q. Jones, AV 736-2102 MSG Paul Bryan		
<p style="font-size: 2em; opacity: 0.5;">SAMPLE</p> <p>***** S A M P L E *****</p> <p>PHENIUS P. McBRIDE MAJOR, Infantry S-3</p>				
CO-USAGE INFORMATION				
DATE	AREA	UNIT	CONCURRENCE (Name/Rank)	SIGNATURE
			<p style="font-size: 2em; opacity: 0.5;">SAMPLE</p>	
DATE RECEIVED:			APPROVED:	DISAPPROVED:

APPENDIX C

SURVEY FIRING POSITIONS

SURVEY FIRING POSITIONS

FORT CHAFFEE, ARKANSAS

Indirect Firing Points

Potato Hill Impact Area

<u>FIRING POINTS</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT. (M)</u>	<u>GRID</u>
A-020	405-562.7	3-899-175.1	161.7	0556-9918
A-031	400-361.9	3-903-743.2	140.7	0036-0374
A-041	400-375.5	3-904-351.5	146.8	0038-0435
A-042	400-562.5	3-904-534.6	151.7	0056-0453
A-131	401-127.7	3-903-415.2	149.0	0113-0342
A-141	401-906.5	3-904-911.1	168.3	0191-0491
A-147	401-885.7	3-904-338.0	144.8	0189-0434
A-153	401-248.1	3-904-162.9	151.7	0125-0416
A-154	401-240.5	3-903-679.4	138.7	0124-0368
A-163	401-036.9	3-903-220.3	145.1	0104-0322
A-164	400-949.8	3-902-893.1	144.5	0095-0289
A-165	400-806.0	3-902-671.8	138.9	0081-0267
A-174	400-441.7	3-902-268.7	132.5	0044-0227
A-175	400-399.3	3-902-114.9	135.8	0040-0211
A-176	400-329.4	3-901-463.1	143.9	0033-0146
A-181	400-256.6	3-901-375.2	144.8	0026-0138
A-188	400-155.2	3-901-174.3	142.4	0016-0117
A-241	402-247.9	3-904-849.4	161.6	0225-0485
A-242	402-744.4	3-904-882.4	162.9	0274-0488
A-243	402-401.9	3-904-853.2	159.8	0240-0485
A-244	402-762.4	3-904-285.7	146.7	0276-0429
A-245	402-564.7	3-904-298.0	147.6	0256-0430
A-246	402-386.5	3-904-309.8	147.2	0239-0431

<u>FIRE PTS.</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT(M)</u>	<u>GRID</u>
A-247	402-216.7	3-904-315.3	146.2	0222-0432
A-341	403-998.7	3-904-126.8	152.4	0400-0413
A-342	403-635.7	3-904-134.6	149.1	0364-0413
A-441	404-563.0	3-904-119.5	151.4	0456-0412
A-442	404-256.5	3-904-108.9	150.0	0426-0411
A-443	404-729.5	3-904-108.2	150.7	0473-0411
A-444	404-919.8	3-904-093.0	151.2	0492-0409
A-501	405-817.1	3-900-540.7	170.0	0582-0054
A-502	405-828.5	3-900-363.4	169.3	0583-0036
A-503	405-777.9	3-900-134.2	176.1	0578-0013
A-511	405-967.2	3-901-541.3	162.9	0597-0154
A-512	405-944.3	3-901-319.8	166.0	0594-0132
A-513	405-881.1	3-901-175.3	169.5	0588-0118
A-531	405-927.6	3-903-859.8	158.8	0593-0386
A-541	405-301.5	3-904-031.3	154.7	0530-0403
A-542	405-677.9	3-904-013.4	157.8	0568-0401
A-631	406-142.0	3-903-809.9	156.5	0614-0381
C-111	391-175.13	3-901-259.52	172.50	9118-0126
C-121	391-819.46	3-902-493.91	207.34	9182-0249
C-122	391-442.60	3-902-626.74	211.91	9144-0263
C-131	391-568.5	3-903-655.9	245.2	9157-0366
C-132	391-640.1	3-903-809.7	245.3	9164-0381
C-133	391-846.7	3-903-976.0	241.0	9185-0398
C-134	391-693.8	3-903-097.9	227.0	9169-0310
C-135	391-808.0	3-903-576.9	241.4	9181-0358
C-136	391-149.0	3-903-878.3	242.8	9115-0388
C-141	391-897.6	3-904-300.4	231.6	9190-0430
C-151	391-956.5	3-905-420.0	145.9	9196-0542
C-152	391-878.6	3-905-787.6	139.5	9188-0579
C-153	391-899.9	3-905-104.4	166.3	9190-0510
C-211	392-425.18	3-901-532.27	179.81	9243-0153
C-212	392-386.64	3-901-726.39	184.23	9239-0173

<u>FIRE/PTS</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT(M)</u>	<u>GRID</u>
C-213	392-271.61	3-901-907.88	190.34	9227-0191
C-221	392-016.18	3-902-767.87	216.98	9202-0277
C-231	392-337.1	3-903-275.4	227.1	9234-0328
C-232	392-363.5	3-903-740.0	235.4	9236-0374
C-233	392-946.7	3-903-199.8	235.7	9295-0320
C-241	392-934.0	3-904-880.0	150.7	9293-0488
C-251	392-296.6	3-905-423.0	142.4	9230-0542
C-253	392-467.9	3-905-091.7		9247-0509
C-301	393-318.25	3-900-564.72	247.10	9332-0056
C-311	393-162.03	3-901-705.45	186.80	9316-0171
C-312	393-538.28	3-901-597.39	176.39	9354-0160
C-313	393-204.09	3-901-923.30	193.40	9320-0192
C-321	393-498.61	3-902-022.14	188.10	9250-0202
C-331	393-682.4	3-903-577.8	217.8	9368-0358
C-332	393-763.6	3-903-314.9	222.4	9376-0331
C-341	393-222.4	3-904-770.7	152.3	9322-0477
C-351	393-435.8	3-905-463.5	178.9	9344-0546
C-352	393-697.8	3-905-312.4	175.4	9370-0531
C-361	393-902.6	3-906-137.0	153.3	9390-0614
C-362	393-146.8	3-906-343.1	169.8	9315-0634
C-401	394-374.00	3-900-020.35	163.80	9437-0002
C-402	394-885.9	3-900-349.7	160.9	9489-0035
C-421	394-921.56	3-902-014.56	174.53	9492-0201
C-422	394-732.61	3-902-267.85	183.68	9473-0227
C-423	394-731.40	3-902-850.34	190.90	9473-0285
C-431	394-984.7	3-903-183.4	192.8	9498-0318
C-432	394-015.7	3-903-094.7	218.7	9402-0309
C-433	394-917.4	3-903-103.6	194.0	9492-0310
C-434	394-666.0	3-903-633.9	191.5	9467-0363
C-441	394-645.2	3-903-936.6	179.2	9465-0394
C-442	394-640.0	3-904-562.7	143.1	9464-0456
C-443	394-729.6	3-904-740.6	142.0	9473-0474
C-451	394-042.0	3-905-731.9	147.8	9404-0573
C-452	394-993.6	3-905-550.9	140.4	9499-0555

<u>FIRE PTS</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT(M)</u>	<u>GRID</u>
C-501	395-795.8	3-900-793.6	155.8	9580-0079
C-511	395-128.14	3-901-816.58	162.87	9513-0182
C-512	395-574.38	3-901-245.01	191.70	9557-0125
C-521	395-775.33	3-902-592.14	167.73	9578-0259
C-522	395-666.66	3-902-358.81	164.02	9567-0236
C-523	395-798.66	3-902-225.33	158.45	9580-0226
C-531	395-295.7	3-903-397.0	176.8	9530-0340
C-532	395-430.0	3-903-618.4	174.2	9543-0362
C-533	395-577.4	3-903-140.0	177.1	9559-0314
C-534	395-963.3	3-903-159.1	169.0	9596-0316
C-553	395-796.5	3-905-665.9	137.4	9580-0567
C-554	395-485.2	3-905-710.6	138.9	9549-0571
C-555	395-376.2	3-905-533.2	139.2	9538-0553
C-591	395-169.94	3-899-824.54	160.90	9517-9982
C-601	396-439.39	3-900-666.42	152.68	9644-0067
C-602	396-288.40	3-900-475.34	150.33	9629-0048
C-611	396-749.88	3-901-031.78	150.09	9675-0103
C-612	396-033.97	3-901-556.83	185.74	9603-0156
C-613	396-501.77	3-901-706.78	166.80	9650-0171
C-621	396-804.02	3-902-016.03	167.49	9680-0202
C-622	396-795.23	3-902-757.24	141.80	9680-0276
C-631	396-362.4	3-903-367.7	145.8	9636-0337
C-632	396-514.9	3-903-642.7	138.0	9651-0364
C-633	396-655.4	3-903-501.1	138.1	9666-0350
C-634	396-948.6	3-903-062.6	140.4	9695-0306
C-641	396-952.5	3-904-613.5	136.9	9695-0461
C-642	396-940.7	3-904-980.9	137.1	9694-0498
C-651	396-678.2	3-905-179.5	136.4	9668-0518
C-652	396-366.9	3-905-482.2	127.6	9637-0548
C-653	396-046.7	3-905-591.8	135.7	9605-0559

<u>FIRE PTS</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT(M)</u>	<u>GRID</u>
C-701	397-442.88	3-900-791.92	154.01	9744-0079
C-702	397-490.75	3-900-935.66	148.48	9749-0094
C-711	397-552.59	3-901-868.82	145.59	9755-0187
C-712	397-950.76	3-901-507.84	140.56	9775-0151
C-721	397-476.64	3-902-953.96	145.12	9748-0295
C-722	397-566.80	3-902-572.36	143.09	9757-0257
C-723	397-616.27	3-902-787.30	145.50	9762-0279
C-724	397-762.0	3-902-997.5	148.6	9776-0300
C-731	397-377.7	3-903-212.9	148.9	9738-0321
C-732	397-161.2	3-903-561.7	143.4	9716-0356
C-733	397-008.9	3-903-208.1	142.2	9701-0321
C-734	397-616.5	3-903-831.8	135.6	9762-0383
C-735	397-704.8	3-903-610.9	138.0	9770-0361
C-736	397-734.7	3-903-134.8	148.0	9773-0313
C-741	397-431.2	3-904-204.8	132.5	9743-0420
C-811	398-461.03	3-901-647.73	138.71	9846-0165
C-812	398-097.86	3-901-832.25	137.90	9834-0197
C-821	398-485.01	3-902-563.90	138.93	9849-0256
C-841	398-490.4	3-904-959.0	146.4	9849-0496
C-851	398-691.0	3-905-013.5	146.4	9869-0501
C-911	399-461.6	3-901-541.7	145.0	9946-0154
C-912	399-427.4	3-901-645.7	137.0	9943-0165
C-913	399-425.2	3-901-835.7	132.4	9943-0184
C-914	399-428.6	3-901-948.1	131.6	9943-0195
C-921	399-436.4	3-902-636.2	122.4	9944-0264
C-922	399-503.9	3-902-486.9	123.9	9950-0249
C-923	399-464.0	3-902-123.3	129.3	9946-0212
C-931	399-216.8	3-903-780.8	140.4	9922-0378
C-932	399-243.8	3-903-525.0	142.1	9924-0353
C-941	399-334.3	3-904-120.8	139.3	9933-0412
C-942	399-460.8	3-904-220.5	140.3	9946-0422
C-951	399-035.8	3-905-080.6	147.0	9904-0508
C-952	399-305.0	3-905-140.4	147.5	9931-0514

<u>FIRE PTS</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT(M)</u>	<u>GRID</u>
D-231	402-385.12	3-893-773.00	179.05	9239-9377
D-341	393-895.53	3-894-776.25	185.26	9390-9478
D-381	393-672.97	3-898-790.63	162.51	9367-9879
D-382	393-825.04	3-898-443.21	161.96	9383-9844
D-383	393-807.31	3-898-184.11	162.39	9381-9818
D-442	394-299.98	3-894-878.61	179.78	9430-9488
D-451	404-477.34	3-895-341.90	192.04	0448-9534
D-452	404-607.55	3-895-529.78	195.40	0461-9553
D-453	404-867.30	3-895-684.26	196.51	0487-9568
D-454	404-297.29	3-895-289.46	191.88	0430-9529
D-541	395-673.20	3-894-910.99	183.44	9567-9491
D-551	405-208.77	3-895-518.79	191.27	0521-9552
D-552	405-462.6	3-895-543.25	193.57	0546-9554
D-653	396-596.72	3-895-289.85	176.86	9660-9529
D-654	395-898.56	3-895-043.11	174.67	9690-9504
D-655	396-926.35	3-895-189.40	179.95	9693-9519
D-656	396-738.08	3-895-042.51	179.87	9674-9504
E-041	390-025.0	3-904-440.3	224.8	9002-0444
E-251	382-834.94	3-905-116.54	135.12	8283-0512
E-252	381-498.81	3-904-873.15	135.60	8150-0487
E-561	385-976.35	3-906-686.82	131.10	8598-0669
E-562	385-141.93	3-906-825.71	136.71	8514-0683
E-642	386-735.2	3-904-507.3	229.1	8674-0451
E-643	386-604.5	3-904-168.5	230.2	8660-0417
E-654	386-630.9	3-905-525.4	138.5	8663-0553
E-761	387-655.82	3-906-251.93	132.97	8766-0625
E-821	388-795.51	3-902-792.32	187.40	8880-0279
E-822	388-694.78	3-902-580.56	179.60	8869-0258
E-823	388-805.07	3-902-193.83	167.00	8881-0219
E-824	388-551.08	3-902-040.41	164.20	8855-0204

<u>FIRE PTS</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT(M)</u>	<u>GRID</u>
E-831	388-515.30	3-903-481.62	203.30	8852-0348
E-851	388-891.2	3-905-073.5	244.3	8889-0507
E-901	389-087.16	3-900-542.32	151.70	8909-0054
E-911	389-159.72	3-901-478.29	158.90	8916-0148
E-931	389-975.1	3-903-485.49	210.39	8998-0349
E-932	389-988.11	3-903-988.37	219.97	8999-0399
E-941	389-152.1	3-904-263.9	227.8	8915-0426
E-942	389-832.2	3-904-172.3	226.5	8983-0417
E-943	389-362.2	3-904-580.7	224.8	8936-0458
E-959	389-315.2	3-905-253.4	236.4	8932-0525

Section C. Observation Points

<u>OP</u>	<u>EAST</u>	<u>NORTH</u>	<u>ALT(M)</u>	<u>GRID</u>
OP4	397-688.80	3-900-850.28	168.41	9769-0085
OP5	400-149.71	3-901-524.98	153.26	0015-0152
OP6	400-874.39	3-902-711.82	149.13	0087-0271
OP7	400-809.79	3-903-012.01	153.85	0081-0301
OP8	400-977.1	3-903-410.0	153.9	0098-0341
OP10	399-451.68	3-904-574.18	173.97	9945-0457
OP11	398-947.72	2-903-965.96	167.10	9895-0397
OP12	388-962.6	3-903-463.4	173.2	8896-0346
OP13	399-336.21	3-901-651.03	142.61	9934-0165
OP14	399-312.53	3-901-558.04	153.0	9931-0156
OP15	402-234.58	3-904-959.32	169.34	0223-0496
OP16	402-695.27	3-904-905.50	163.84	0270-0491
OP17	405-874.87	3-904-126.08	170.0	0587-0413
OP18	395-990.2	3-901-582.4	190.7	9599-0158
Pinnacle OP	404-162.69	3-897-035.11	369.14	0416-9704

APPENDIX E

FORT CHAFFEE RANGE CONFLICTS

RANGE	TYPE RANGE	CONFLICTS
12	KD	RANGE 13 & ARROWHEAD
13	KD	RANGE 12 & ARROWHEAD
14	500 & 1000 IN	ARROWHEAD
20	TANK TABLES I-III	ARROWHEAD
21	PISTOL	RANGE 13 & ARROWHEAD
22	1000 IN	ARROWHEAD & RG 37
23	1000 IN	ARROWHEAD
24	500 & 1000 IN	ARROWHEAD
25	FIELD FIRE & NIGHT FIRE RANGE	ARROWHEAD & RG 92
30	COMBAT PISTOL	ARROWHEAD
35	1000 IN	ARROWHEAD
37	PLATOON IN ATTACK	RANGE 22, 30 ARROWHEAD FT SMITH BOULEVARD
80	SQUAD IN THE DEFENSE	RANGES 87, 88 (GUNSHIPS), 99
82	TOW/Dragon LIVE FIRE	RANGES 69, 70, 80, 87, 88, 99 TARGET AREA TO RANGE 86
83	105 HOW (MOVING TARGETS)	RANGE 88 (GUNSHIPS), 87
84	50 CAL MACHINE GUN MOVING TARGET	RANGE 88, 87, TARGET AREA FOR RANGE 86
86	TANK TABLES IV-VIII (MOVING TARGETS)	RANGE 87, 88 (GUNSHIPS), 99
87	AIR TO GROUND JET FIGHTER	ALL RANGES, FIRING PTS ON EAST SIDE HWY 96, EXCEPT RGS 85, 69, 70
88	HELICOPTER AERIAL GUNNERY	ALL RANGES, FIRING PTS. ON EAST SIDE HWY 96, EXCEPT RGS 85, 69, 70
90	M60 MACHINE GUN TRANSITION	ARROWHEAD
92	M60 MACHINE GUN TECHNIQUE OF FIRE	ARROWHEAD & RANGE 25
95	SCOUT	RANGE 88, 87, 99
99	HELICOPTER AERIAL GUNNERY	ALL RANGES, FIRING PT. ON EAST SIDE HWY 96, EXCEPT RGS 85, 69, 70
DROP	ARROWHEAD	TACTICAL LANDING STRIP CL III, C-130 SMALL ARMS IMPACT AREA
DROP	GORDON	ELECTRICAL POWER TO WEST AREA, FORT SMITH FAA
88	TANK TABLE IX	RANGE 99, 87, TARGET AREA FOR RANGE 86

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FOR THE COMMANDER:



FRANK L. MILLER, JR.
Colonel, FA
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