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(COMBINED ARMS OPERATIONS IN URBAN TERRAIN F.M.3-06.11 February 2002)

軍事英文文摘-攻擊作戰(攻擊考慮事項)

OFFENSIVE OPERATIONS--OFFENSIVE CONSIDERATIONS

提要:

- 一、城鎮戰因為不同於其他戰場狀況,所以有以下諸般要求,例如兵種間協同 作戰、火力運用、部隊運動以及特殊裝備之利用。
- 二、如果在城鎮地區內沒有實質存在的威脅足以阻斷指揮官及其部隊完成任務的能力,則指揮官可以決定繞越。
- 三、一般而言,城鎮戰的特性,較其他戰鬥狀況下還需要更多的部隊。這種情況乃端視單位所需裝備的屯置、士兵疲勞狀況、百姓掌控,與因為疏散所造成的傷亡。
- 四、由於考量城鎮中密集的環境,及對武器系統發揮的效果,所以在戰場上要 具備同步處置(指揮運動與射擊)的戰鬥力,乃成為指揮者最重要的挑戰。
- 五、指揮官在攻擊城市時,必須對某些可利用資源的重大限制因素有所認知, 例如,間接火力、非戰鬥人員、夜視裝置與通信能力。

關鍵詞:城鎮攻擊、協同作戰、火力支援、直接射擊、間接射擊

壹、前言:

鎮作戰訓練年」,除參考我軍準則「城 鎮戰教範第二版」,並在國內城鎮訓練 環境考量下,本校預計於 101 年底完 成「裝甲兵城鎮戰教範」之編纂,期 間為配合作業順利,希望汲取外軍(美 軍)訓練依據,藉由翻譯相關準則篇 章,了解其中意含,以利準則研編, 進而達成部隊訓練與實況相符之作戰 要求。

貳、本文:

"From 1942 to the present, shock units or special assault teams have been used by attackers (and often by

defenders) with great success. These assault teams are characterized by integration of combined arms. Assault teams typically contain Infantry with variable combinations of armor, artillery, or engineers."

"從 1942 年至今,在城鎮戰中運 用突擊組或是特攻組來擔任攻擊者抑 或防禦者,都能獲得極大的成效。這 樣的突擊部隊有著結合多種武器的特 性。通常包含不同的裝甲、砲兵或是 由工兵所組成的步兵部隊。" Section I.

OFFENSIVE CONSIDERATIONS: 第一節、攻擊的考量因素:

Offensive operations in urban areas are based on offensive doctrine modified to conform to the urban terrain. Urban combat also imposes a number of demands that are different from other field conditions such as combined arms integration, fires, maneuver, and use of special equipment.

在城鎮中的攻勢作戰,乃依據攻勢準則修改後之行動以結合城市之地形。城鎮戰因為不同於其他戰場狀況,所以有以下諸般要求,例如兵種間的協同作戰、火力運用、部隊運動以及特殊裝備之利用。

As with all offensive operations, the commander must retain his ability to fix the enemy and maneuver against him. Offensive UO normally have a slower pace and tempo than operations in other environments.

Unlike open terrain, units cannot maneuver quickly, even when mounted. Missions are more methodical.

如同所有的攻勢作戰,指揮官必 須保存戰力以殲滅敵人及任何危害他 的行動。城鎮中攻勢作戰的速度和節 奏通常較其他作戰環境來的緩慢。不 同於開闊地形,即使是乘車戰鬥,部 隊也不見得能夠快速機動。所以任務 更需要有條不紊。

Brigades must be prepared to operate independently or within a division or joint task force (TF). The brigade and its subordinate battalion TFs must also be prepared to conduct different mission simultaneously. For example, a battalion may establish checkpoints in one section of a city and clear enemy in another section simultaneously.

旅必須獨立完成作戰準備或在師級架構下組成一個聯合特遣隊。旅和下轄之營特遣隊也必須要完成能同時執行不同任務之準備。例如,營要能在市區之一個路段設置檢查點(站),並且要能在同時間於另一個路段殲滅敵軍。

4-1. REASONS FOR ATTACKING URBAN AREAS:

攻擊城鎮地區的理由:

Reasons for attacking urban areas include the following:

攻擊城鎮區域的原因包含以下內容:

a.: The results of the commander and staff's estimate may preclude bypassing as an option. The mission itself may dictate an attack of an urban area.

- (一)指揮官和參謀作業人員經評估 後有排除繞越之選擇。或者, 任務本身可能會影響攻擊城鎮 行動。
- b. Cities control key routes of commerce and provide a tactical advantage to the commander who controls them. Control of features, such as bridges, railways, and road networks, can have a significant outcome on future operations. The requirement for a logistics base, especially a port or airfield, may play a pivotal role during a campaign.
 - (二)城市本身為重要商業樞紐,且 對於未來控管此城市的指揮 官,能提供戰略上的優勢。 能控制的要點,例如橋樑, 。 能控制的要點,例如橋樑, 。 。 的作戰行動結果產生重大影響。 所以,對後勤基地的需求, 特別是港口或機場,便在戰時 扮演著舉足輕重的角色。
- c. The political importance of some urban areas may justify the use of time and resources to liberate it. Capturing the city could deal the threat a decisive psychological blow and or lift the moral of the people within the city. The tactical situation may require the enemy force to be contained. The urban

- area itself may sit on dominating terrain that would hinder by-passing for combat support (CS) and combat service support (CSS) elements. The enemy within that urban area may be able to interdict lines of communications even though the terrain around an urban area may facilitate its bypass.

4-2. REASONS FOR NOT ATTACKING URBAN AREAS:

不攻擊城鎮地區的理由: Conversely, reasons for not attacking urban areas include the following:

a. The commander may decide to bypass if he determines no substantial threat exists in the urban area that could interdict his unit's ability to accomplish its mission. The commander's intent may dictate speed as essential to the mission. Since combat in an urban

area is time consuming, the commander may choose to bypass the urban area to save time.

反言之,不攻擊城鎮地區的原因 包括以下內容:

- b. During the estimate process, the commander and staff may realize a sufficient force is not available to seize and clear the urban area, or enough forces are available to accomplish the mission but cannot be logistically supported. If the tactical situation allows, the commander should avoid attacks on urban areas.
 - (二)在評估整個計畫的過程中,指揮官和參謀作業人員認知沒有足夠的兵力來佔領並清除市區,或即使有,但卻沒有足夠的後勤支援。或者,如果戰術情況下允許,則指揮官應避免城鎮的攻擊行動。
- c. The urban area may be declared an open city to prevent civilian casualties or to preserve cultural or historical sites. An open city, by the law of land warfare, is a city that

cannot be defended or attacked. The defender must immediately evacuate the open city and cannot distribute weapons to the city's inhabitants. The attacker assumes administrative control of the city and must treat its citizens as noncombatants in an occupied country.

4-3. TROOP REQUIREMENTS:

部隊要求:

Due to the nature of combat in urban areas, more troops are normally other needed than in combat situations. This situation is due to the number of requirements placed upon units. soldier fatigue, controlling civilians. evacuation and of casualties.

一般而言,城鎮戰的特性,較其 他戰鬥狀況下還需要更多的部隊。這 種情況乃端視單位所需裝備的屯置、 士兵疲勞狀況、掌控百姓與因疏散所 造成的傷亡。

- a. Because of the need to clear buildings and provide security, the number of troops required to accomplish an offensive mission is much greater. Some forces must be left behind in a building once it to prevent has been cleared enemy forces from repositioning or counterattacking friendly forces. Commanders and staffs need to be keenly aware that attacking will effectively units lose manpower from assault elements as they secure rooms and floors. They must ensure that the proper force ratios exist to conduct the missions assigned to subordinate units.
- b. Commanders must also consider soldier fatigue. Fighting in urban areas is physically demanding and quickly tires a force. Commanders must plan for the relief or rotation of their forces before they reach

- the point of exhaustion. This situation is facilitated through proper task organization and maintenance of adequate reserves.
- c. Additional forces may be needed to deal with noncombatants in the urban area. These forces must protect the noncombatants, provide first aid, and prevent them from interfering with the tactical plan.
 - (三)需要更多的部隊兵力來安置那 些城鎮戰中的非戰鬥人員。這 樣的部隊必須具有保護非戰鬥 人員、提供急救及防止敵人干 擾我戰術計劃之能力。
- d. Fighting in an urban area may result in a greater number of friendly casualties. The greater the restrictions on firepower, the less suppressive fire can be used, and the more the individual soldier is exposed to enemy fire. MEDEVAC /CASEVAC must be planned and subordinate units designated to conduct this.

(四)因為,在城鎮環境中戰鬥可能 會導致更多的友軍傷亡。所以 會導致更多的友軍傷亡。所 火力限制越大,能運用的 水力壓就更少,而單兵也越 暴露於敵火之下。因此,醫療 後送與傷亡後送必須要事先計 畫樣的工作。

4-4. FIRES AND MANEUVER:

射擊與運動:

As in other terrain, units conduct penetrations, envelopments, turning movements, and frontal attacks. Unlike open terrain, commanders cannot maneuver their units and attachments quickly due to the close, dense environment. Clearing buildings and looking for anti-armor ambushes, snipers, and booby traps degrade the ability of subordinate units to maneuver.

部隊在進行滲透、包圍、迂迴和 正面攻擊的行動過程,就像在其他地 形作戰的要領一樣。不同於開闊地 形,指揮官在城鎮封閉且密集的環境 中,是無法快速地使其部隊遂行機動 與攻擊行動。而清除建築物與尋找反 裝甲獵殺人員、狙擊手和詭雷設施, 將會降低所屬部隊的機動能力。

Due to the dense environment and its effects on weapon systems, the synchronization of combat power is one of the commander's main challenges. Offensive operations need to be planned in detail, with subordinate elements given specific

instructions and on order missions.

Maintaining situational awareness assist in overcoming the inability to maneuver quickly.

由於考量城鎮中密集的環境,及 對武器系統發揮的效果,所以在戰場 上要具備同步處置(指揮運動與射擊) 的戰鬥力,乃成為指揮者最重要的挑 戰。而攻擊作戰須要有詳盡的計劃, 並給予所屬單位在任務命令上有具體 的指導。保持認清態勢以克服無法迅 速機動的窒礙。

a. Indirect Fires:

The fire support plan may require extensive air artillery and bombardment to precede the ground attack on an urban area. Supporting fire suppresses the defender's fire. restricts his movement, and may destroy his position. However, indirect fire in urban areas with heavily clad construction creates rubble, which can be used for cover but may restrict the movements of attacking troops. For that reason, the artillery preparation should be short and violent. Assaulting troops must follow the artillery fire closely to exploit its effect on the defenders. While the supporting suppresses the enemy, maneuver units move near the coordinated fire line (CFL). As the attacking force assaults the objective, fires are lifted or shifted to block enemy withdrawal or to prevent the enemy from reinforcing their position.

(一)間接射擊:

火力支援計劃可能需要大量的 空軍和砲兵轟炸,以利進行城 鎮攻擊之地面戰。以火力支援 制壓防守一方的射擊,限制他 的運動,而且可以摧毀其陣 地。另外,在城鎮地區中以間 接火力所造成多數的廢墟與礫 石,可用來掩護部隊,但卻也 可能限制我攻擊部隊的運動。 由於這個原因,所以砲兵的攻 擊準備射擊是需要短暫且猛烈 的。突擊部隊必須緊密地跟在 砲兵火力後方,並且痛擊防守 的一方。當支援的火力對敵軍 實施制壓時,機動部隊需運動 至火力協調線的附近。當攻擊 部隊衝鋒時,則需增加火力支 援或轉移火力對街區撤退之敵 實施射擊, 甚至防止敵人陣地 增援。

(1) Prior coordination is critical to determine the techniques and procedures for communication, target identification, and shifting of fires. Consideration must be given to the noncombatants, of worship, medical houses centers, schools, public services, and historical monuments. The fire support plan can include integrating tanks, Infantry weapons, artillery, and dismounted direct and indirect

fires.

- (1)對於決定運用通信之方法和程序,目標識別和轉移火力,事先協調具有重大的影響力。且必須考慮到非戰鬥人員、宗教場所以實際中心、學校、公共服務處所和歷史古蹟。另外,火力支援計畫應包含戰車、步兵武器、砲兵火力。
- (2) Indirect fire is planned to isolate objectives, to prevent reinforcement and resupply, to neutralize known and suspected command and observation posts, and to suppress enemy defenders. Most indirect fires are high-angle in urban terrain.
 - (2)間接射擊可運用於孤立目標、防止敵重整與再補給、清除已知與未知的敵指揮所和觀測所,甚至可用以壓制防禦之敵。而大部分在城鎮地區的間接火力均屬高角射擊。
- (3) Mortars are the most responsive indirect fires to hit targets of opportunity at the close ranges typical of combat in urban areas. Forward observers move with the forward units to adjust fire on targets as requested by the supported troops.
 - (3)在典型的城鎮戰中,以迫砲選定 並攻擊近距離的目標是最迅速 的間接火力。前觀人員須跟著前 衛部隊機動,並透過支援部隊以

調整火力指向所需之目標。

b. Direct Fires. Direct-fire is the most effective fire support in urban areas. Once a target can be located in a building, one or two direct-fire rounds can accomplish what entire salvos of indirect fire cannot. The best direct-fire support is provided by Bradley fighting vehicles (BFVs) but can also be provided by tanks and or howitzers. Tanks and howitzers may create rubble and building and street could damage that restrict movement for the attacking force.

(二)直接射擊:

(1) Tanks may support by fire when lead units are seizing a foothold. During the attack of an urban area, tanks overwatch the Infantry's initial assault until an entry into the area has been secured. Tanks are supported by Infantry organic weapons to suppress enemy

- strongpoints while they move into overwatch positions. Commander employ tanks to take advantage of the long range of their main gun. This procedure is usually achieved with tanks employed outside the urban area, for the duration of the attack cover high-speed to mounted avenues of approach, especially during the isolation phase. Tanks may also support Infantry in the urban area as an assault and support weapon. In both cases, Infantry must protect tanks.
- (2) In house-to-house and street fighting, tanks and or BFVs move down streets protected by the Infantry, which clears the area of enemy ATGM weapons. Tanks and BFVs in turn support the

Infantry by firing their main guns and machine guns to destroy enemy positions. Tanks are the most effective weapon for heavy fire against structures and may be used to clear rubble with dozer blades (Figure 4-1). The BFV can provide sustained, accurate suppressive fires with its 25-mm gun.

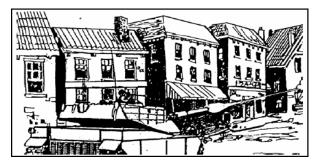


Figure 4-1. 圖 4-1 Tank in direct fire supported by Infantry. 戰車受步兵直接火力的支援

(3) Large-caliber artillery rounds that are shot by direct fire are effective for destroying targets in buildings. If available, self-propelled 155-mm howitzers can use direct fire to

destroy or neutralize bunkers, heavy fortifications, or enemy positions in reinforced concrete buildings (Figure 4-2). self-propelled 155-mm can be used to clear or create avenues of approach. The 105-mm artillery can be used in this role but are not the preferred artillery pieces used in offensive UO. When artillery is used in the direct fire role, it must be close to the Infantry for security against enemy ground attack. Prior coordination must accomplished so the bulk of the field artillery unit's shells are switched to High Explosive (HE).



Figure 4-2. 圖 4-2

- Artillery in direct-fire role. 砲兵在直接火力的作用 了考量步兵的安全性,它必須貼 近步兵,以反制敵之地面攻擊。 此外,因為需要事先完成協調, 所以多數野戰砲兵部隊的彈藥 可改為高爆彈藥(HE)。
- (4) Tanks, self-propelled artillery, and BFVs are vulnerable in urban areas because streets and alleys provide ready-made fire lanes for defenders. Motorized traffic is canalized. restricted. and vulnerable to ambush and close-range fire. Tanks are at a further disadvantage because their main guns cannot depressed sufficiently to fire into basements or elevated to fire into upper floors of buildings at close range (Figure 4-3).
 - (4)戰車、自走砲與布萊德雷戰鬥車 (BFVs)在城鎮地區是很脆弱 的,因為任何街道巷弄都可能被 防禦的一方當成的射擊通道。而 當摩托化運輸受到限制與拘束 時,便容易遭受伏擊和近距離射 擊。另外,戰車還有其他的劣勢, 因為他們的主砲不能有效地對地

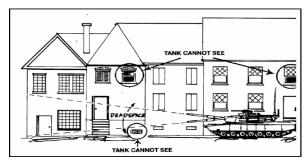


Figure 4-3. 圖 4-3 Tank dead space. 戰車死角擊 (圖 4-3)。

- 下室射擊,也無法在近距離之下對 較高建築物之樓層實施高角射擊。
- (5) Direct-fire systems organic to Infantry battalions mainly ATGMs and recoilless weapons, such as the AT4, are initially employed to support the seizure of a foothold. Then, if necessary, they are brought forward to fight enemy armor within the town. Antitank weapons are not as effective as tank rounds for neutralizing targets behind walls. They neutralize a target only if that target is located directly behind the point of impact. ATGMs are at a greater disadvantage because of their 65-meter arming distance and the possibility of their guiding wires becoming caught on ground clutter. These factors limit employment in close engagements like those in urban areas.
 - (5) 直接火力系統建制在步兵營中,

這些因素,所以形成了城鎮戰中 進接戰鬥的運用限制了。

- (6) Snipers are a valuable asset during urban operations. They must be equipped with effective observation devices and placed in a key area to be effective. In situations where the ROE permit the use of destructive force, snipers can be used as part of the support element to provide accurate, long-range fires. Depending on the commander's concept, snipers can employed in the counter-sniper role or assigned priority targets. If a restrictive ROE is in effect, snipers may be used to prevent collateral damage. Snipers can overwatch also breaching operations and call for indirect artillery fires.

c. Maneuver:

The first phase of the attack should be conducted when visibility is poor. Troops can exploit poor visibility to cross open areas, gain access to rooftops, infiltrate enemy areas, and gain a foothold. If the attack must be made when visibility is good, units should consider using smoke to conceal movement.

(三)機動:

當戰場能見度不良時,可遂行攻擊的第一階段。而部隊可利用能見度不佳時,通過開開地、進入屋頂、滲透敵區及奪取要點。如果在能見度良好時數極攻擊,則各單位應考慮施效煙霧以隱匿行動。

- (1) The formation used in an attack depends on the width and depth of the zone to be cleared, the character of the area, anticipated enemy resistance, and the formation adopted by the next higher command.
 - (1)攻擊之隊形運用,乃依據欲清掃 之戰場橫寬與縱深之區域、該區 域的性質、預期敵之抵抗作為與 上級指揮官所要求與採用者。
- (2) Lead companies may have engineers attached for immediate support. Tasks given to the engineers may include:
- *Preparing and using explosives to breach walls and obstacles.
- * Finding and exploding mines in place or helping remove them.

- * Clearing barricades and rubble.
- * Cratering roads and other countermobility measures.
- (2)前衛連應有工兵配屬以實施立即 的支援。工兵部隊受領之任務包 含:
 - *整備並運用炸藥破壞土堤障礙物
 - *找到地雷的位置並引爆,或協助 將其移除。
 - *清理路障和瓦礫。
 - *爆破路坑,與其它反機動措施。
- (3) When the unit is involved in clearing, bypassing buildings increases the risk of attack from the rear or flank. A single building may be an objective for a rifle squad, or if the building is large, for a rifle platoon or company. When the commander's concept is based on speed or when conducting a hasty attack, a battalion may be directed not to clear its entire zone.
 - (3)當部隊執行建築物清掃時,從建築物後面或側面繞越將增加危險性。一間獨立家屋可以是一個獨立家屋可以是一間大型,可以是一個排甚至是的攻擊目標。而當指揮的攻擊目標。而當指揮為者。 量,則可以不需要直接清掃所有的範圍。
- (4) The reserve should be mobile and prepared for commitment. The reserve can stay close to forward units because of the

- available cover in urban areas. Battalion reserves normally follow one to two blocks to the rear of the lead company. A company reserve, if available, follows within the same block so it can immediately influence the attack. A unit with a reserve mission may be called upon to perform one or more of the following tasks:
- * Attacking from another direction.
- * Exploiting an enemy weakness or friendly success.
- * Clearing bypassed enemy positions.
- *Securing the rear or a flank.
- * Maintaining contact with adjacent units.
- *Supporting or counterattacking by fire.
- *從另一個方向攻擊。
- *利用敵人的弱點或友軍的優勢,清 掃敵陣地並繞越。
- *擔任後衛與側衛。
- *與友軍維持聯繫。
- *以火力支援或反攻。

- (5) The battalion reconnaissance scout platoon is normally the employed to reconnoiter battalion's flanks and rear. capability for reconnaissance and security is somewhat reduced in urban areas. The reconnaissance /scout platoon can also isolate a village or small town. They must be prepared dismount and enter buildings for reconnaissance or for setting up OPs. Infantry platoons and squads conduct reconnaissance OPs patrols and man supplement the reconnaissance /scout platoon effort.
- (6) Security in an urban area presents special problems. All troops must be alert to an enemy that may appear from the flanks, from above, or from subterranean areas.
 - (6) 城鎮地區的安全性是個專業的課 題。所有的部隊都要針對由城鎮

側方、上方與地下而來的敵人實 施警戒。

d. Movement:

Moving from building to building or buildings between present units problem to conducting offensive operations. Historical examples, recent operations in Somalia, and the Russian experience in Grozny have shown most casualties can expected during movement from building to building and down streets. Therefore, during mission analysis, commanders and staffs should plan operations in such a manner that allow subordinate take elements to maximum advantage of covered and concealed routes within the urban Additionally, commanders and staffs must carefully analyze which buildings must be isolated. suppressed, and obscured, consistent with the ROE, as well as using armored assets as shields for maneuver elements.

(四)運動:

對執行攻擊作戰的部隊而言間內運動,或家屋門運動,或家屋門運動,或家馬與題。從最近索馬與題為茲尼作戰經驗,在家屋內與街道內與人員傷亡是可預,在任務分析時期的。因此,在任務分析時期的。因此,在任務分析時間,指官與參謀作業人員應計劃作

- (1) In movement down narrow streets, or down wider streets with narrow paths through the debris, Infantry should move ahead of the tanks clearing the buildings on each side. Personnel movement across open areas must be planned with a specific destination in mind. Street intersections should be avoided, since they are normally used as engagement areas. Suppression of enemy positions and smoke to cover Infantry movement should also included in the fire support plan. When needed, tanks move up to places secured by the Infantry to hit suitable targets. When an area is cleared, the Infantry again moves forward to clear the next area. Tanks and Infantry should the traveling overwatch use technique movement communicate with tank crews by using arm-and-hand signals and radio.
- (1) 在狹窄的街道間運動,或者穿梭 在滿是石堆的街道巷弄中,步兵

- (2) For movement down wider streets, Infantry platoons normally have a section of attached tanks with one tank on each side of the street. Single tanks should not employed. Other tanks of the attached tank platoon move behind the Infantry and fire at targets in the upper stories of buildings. In wide boulevards, commanders may employ a tank platoon secured by one or more Infantry platoons. The Infantry can secure the forward movement of the lead tanks, while the trailing tanks overwatch the movement of the lead units.
 - (2)為了在更寬廣的街道中運動,步 兵通常會伴隨一個戰車組,與戰 車分別由街道的兩側運動。戰車 單車不應被單獨立運用。而戰車

排的其他戰車應該運動至步兵後方,以火力指向較高建築物人指向較高建築物人力指向較高建築物人。在寬闊的林蔭門也有實際用一個或數學,指揮官可應用一個或數學,指揮官可確保,也安全。當後,步兵亦可確保前衛戰車向前,步兵亦可掩戶並確保其安全。

- (3) If an Infantry unit must travel along streets that are too narrow for mutual tank support, the tanks travel in single file for support. The tanks move and fire to cover each other's approach while the Infantry provides ATGM fire from buildings as necessary.
 - (3)如果步兵需要與戰車交互掩護通 過極狹窄的街道時,那戰車就要 變換成縱隊,以提供火力支援。 必要時,步兵也可佔領建築物並 提供反坦克導彈的火力支援,使 雙方均能獲得運動與射擊之交互 掩護。
- (4) Tanks may drive inside buildings or behind walls for protection from enemy antitank missile fire where feasible. Buildings are cleared by the Infantry first. Ground floors are checked to ensure they support the tank and there is no basement into which the tank could fall. When moving, all bridges and overpasses are checked for mines, booby traps, and load capacity. Specific Infantry elements are

assigned to protect specific tanks.

4-5. LIMITATIONS:

Commanders attacking an urban area must recognize some important limitations in the use of available assets.

4-5.限制因素:

指揮官在攻擊城市時,必須對某 些可利用資源的重大限制因素有所認 知。

a. Indirect Fires:

Normally, the use of indirect fires is much more restricted in urban areas than in open terrain. Consideration must be given to the effects of the indirect fire on the urban area and noncombatants. This procedure is especially true when extremely restrictive ROE are in effect. When indirect fires are authorized, they must be fired in greater mass to achieve the desired effect. When units are performing multiple missions, indirect fire supporting one element can easily cause casualties in adjacent elements. The rubbling caused by massive indirect fires adversely affect a unit's ability to maneuver during the attack.

(一)間接火力:

b. Noncombatants:

If there are noncombatants intermingled with combatants, the ability to use all available firepower may be restricted.

(二)非戰鬥人員:

如果有非戰鬥人員與戰鬥人員 摻雜一起,那所有可用的火力都 會受到限制。

c. Night Vision Devices:

Commanders and leaders must consider the effect that city lights, fires, and background illumination have on night vision devices. These elements may limit the

effectiveness of night vision goggles (NVGs) and make thermal imagery identification difficult.

(三) 夜視裝置:

指揮官和各階領導者必須考量 城市內的光線、火光及各背景 照明對夜視裝置的影響。這些 都可能會成為夜視鏡(NVGs) 的限制因素,以及熱像識別困 難的原因。

d. Communications:

Communications equipment may not function to its maximum effectiveness because of the density in building construction. Intelligent use of graphic control measures, understanding the commander's intent, and maintaining situational awareness at all levels become more mportant to mission accomplishment.

(四)通信能力:

因為密集的建築物結構特性, 所以通信裝備無法在其中發揮 最大效益。為了達成任務,善 用詳盡的管制措施、了解指揮 官的意圖,並且能保持對戰場 各階段的體認就顯得格外重要 了。

參、結論:

就地面作戰的而言,裝甲部隊一 直以來就是地面部隊的作戰主力,也 是陸上兵種聯合作戰的決勝兵種。所 以我裝甲部隊必然對城鎮地形作戰不 容小覷,我們要打破光憑科技裝備之 裝甲兵是國軍現代化的科技部隊 之一,必須瞭解因應城鎮地區作戰的 特性與限制,對於既有準則、戰衡 對於既有準則、戰變 對於既有準則、支援與郡 大調樂都要全面地檢討,有效提升 鎮戰門能力,唯有不斷汲取科技新 知、熟鍊各項戰技、精研戰術戰 計 新 形優勢,擊敗來犯的敵人,贏得戰爭 的勝利。

參考資料:

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HEADQUARTERS

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