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Steven Canby's Model for the Future Defense of Central Europe

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6 June 1975

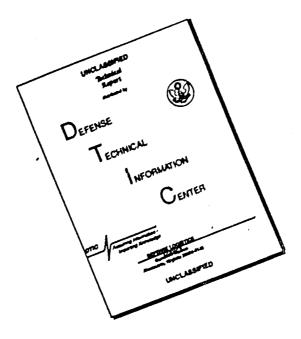
Final Report - 6 June 1975

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The purpose of the study was to critically examine Steven Canby's concept of an improved NATO military doctrine and organization/equipment with particular attention to the impact of MBFR.

This study finds some serious objections to Mr. Canby's concept of defense of Central Europe as outlined in Adelphi Paper No. 109. Particular attention is drawn to Canby's proposed system of unit replacement, concept of defense, mobilization concept and restructuring plan. While supporting Mr. Canby's objective of strengthening the conventional defenses, this study concludes that Mr. Canby's major points are so interconnected that once one flaw is found, the entire structure tends to come crashing down. An alternative operational concept is offered.

## STRVE CA BY'S LODEL FOR THE FUTURE

## DIFFIGE OF CENTRAL EUROPE

A critical examination of Adelphi Paper No.109

Fort Leavenworth, Managan, Lay 1975

## 01.F0SIT1( .

- 1. Introduction
- ". Taction! Aspects
- i. Mestructurion
- 4. Conclusions

#### 1. 1 THOUSETIO

The purpose of this study is to critically examine steven Carby's concept for an improved defense of Central. Europe. Carby believes that the implementation of the MATO tratery of flexible response requires conventional military parity, i.e. the ability of MATO to successfully defend against a concentrated high-speed armored offense with conventional means. Consequently his proposals are aimed at creating a mans. Consequently his proposals are aimed at creating a mosture and defensive concept which, more than the current of eq. take into account the magnitude and nature of the threat, and would climitate the present destabilizing asymetry of military power.

Camby's concept is rather comprehensive and complex. Its main features include:

- (1) Restructuring of divisions: More and much smaller divisions, greater weapons density (mainly AT weapons), less much sure infactry, less "tail".
- (1) Contralization of combat support and combat service support.
- (3) Specialization of divisions: counter attack divisions; defensive divisions and anti-tank cavalry divisions.
- (4) Jercer along the border, light forward defence, "Chequerboard" defence actride anticipated axis of advance, strong reserves in depth.
- (b) Unit replacement instead of individual replacement.
- (6) Emploitation of technological developments which by their rature favor the defense.

Because of river constraints only nelected, particularly problematic, aspects of the Camby model will be examined. replacement mystem) and the reorganization of forces. Based on the examination some suggestions shall be developed for a modification of Camby's concept.

## C. TACTIDAL A. PROTE

#### Unit Replacement

There are serious objections to Canby's proposal that we adopt the Soviet system of writ replacement. This system (which incidentially make possible the extreme centralization of combat service support which Carby emphasizes) meets the consistence of a fluid battlefield. The Soviets use the echelon concept in the offensive, replacing the attacking echelon as it becomes worn out. It is a far more difficult thing to do in the defense. Our strategy is constrained to a confidence. Therefore, our tacties and organization ment comfort to a forward defense — and unit replacement does not. The seed to replace a forward unit in contact could destroy the integrity of the defensive position.

### Pete co against I factry

Recall that Comby considers the primary threat to be massed ormer -- high speed, using selected avenues of advance.

While this is certainly the most as gerous threat, one must remember that the danger is one of a breakthrough: While a breakt trough will be exploited by tanks, it will not be instable, radio by them.

of Rangel, is not tank country, with forests, steep slopes, medium sized towns, and numerous small streams. The terrain becomes progressively more suited to tanks the further one gets from the border, but defensive positions will initially be forced

by inforchry. The probable must of inforcing to make the initial penetration is not confined a by to the U.S. sector. Table will not lead an attack accross the Albe River in the Borth, or through the Harz, North of Kassel. Even in the remaining gap -- excellent tank country -- barriers and built up areas must recessitate the forward use of infartry -- of course <u>supported</u> by tanks. On by a ly mentiones the infantry threat briefly, and dismisses it comewhat cavalierly as "inherently slow moving". Carby further states that infantry night attacks "are really only useful for widermining the defense before a tank thrust -- and that is pre-

The overcomplification and ore-sidedness of Camby's threat evaluation has been him to concentrate on the a ti-tack capability of the infantry to the detriment of its anti-infantry capability. Camby proposes a 750 man infantry battalion with 75 major anti-tank weapons. By rough calculations, this would leave only 5 forhole infantrymen in a squad, as opposed to the 8 which we now have. Such a force would be much more vulnerable to an infantry assault - followed by the tanks.

Precautions must be taken against such overreaction, or derradation of the anti-infantry capability, since it would leave our defenses open to one of the Boviet obtions. While defense against the takens of paremount importance to ATO, the new technology confern this capability to infantry formations. Defense against a factry, nowever, remains a manpower - interprive operation. Only infantry can defend against infantry -- a tark force capacit, a han outs-tank force on not.

#### Operational do cent

According to Camby, ATO could make SO divisions available for the defense of Central Murone. Their type and state

or readiless are shown on figure 1:

#### Figure 1

#### Divisions available (Camby's Model)

a. By state of readiness:

Oat I 15 (Be, FR, GE, E)
90% up to 20 (CA, UK, US)

Cat II 20

50,

25% 25%

Total: up to 30 divisions (29 Divisions)

Divisional slice: 20,000 troops ( 40,000 troops)

b. By Type:

5 light AT cav divisions

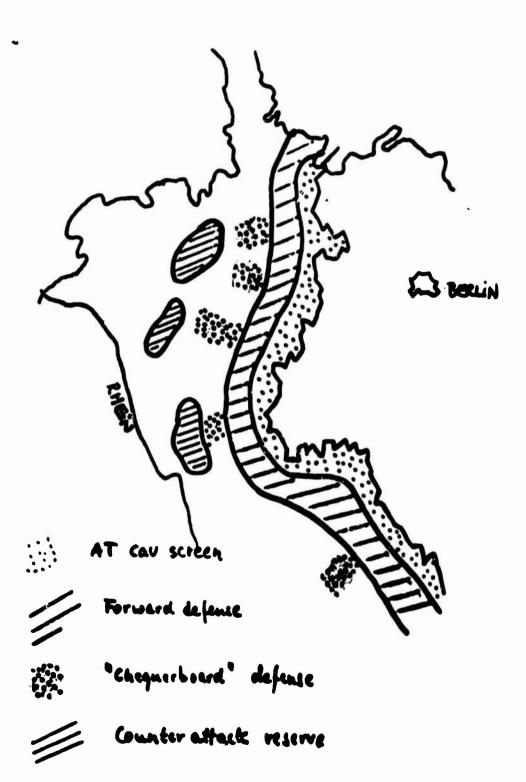
75 counterattack divisions CAT I (armored/mech)

50 Defensive divisions

CAT II & III

Camby surgests to employ these CO divisions as follows: (see Figure 7)

## Canby's Model



The division

- 5 Category I acti-tack cav divisio a screen along the border.
- 15 defensive divisions are assigned to forward defense. These divisions are Cat. II divisions. In case of a surprise attack their role in the forward defense has to be assumed by Cat. I counter attack divisions which after mobilization would then have to be relieved by the assigned Cat. II divisions.
- 35 divisions most of them defensive divisions of the Cat. II and III would be kept in general reserve.

  They would be employed in a "chequerboard" defense in the depth of a ticipated penetrations, and also provide rear area security.
- 25 counter attack divisions would be employed to destroy enemy forces penetrating into or through the "chequer-board" defense or to conduct major counter offenses.

This comeent has severe disadvantages:

(1) It seems unlikely that the Cat. II divisions assigned to forward defense would ever be mobilized and employed carly crough to fulfill their mission from the outbreak of hostilities. It must be assumed that the arrespor hows the NATO concept and would therefore plan for a surprise attack. Consequently a major portion of the Cat. I counter attack divisions would have to be employed in forward defense. Because of the vide fromtages they would probably be worn out heavily is their attempt to defend until the general recorve is mobilized and their redeployment and later use as counterattack force is questionable. Their relief by Cat. II divisions in the forward defense nocitions cannot realistically be assumed. As a result, MTO's strongest, present forces are in canger to be defeated piecemeal.

- (f) Carby's concept men a essentially that comparatively light forces, which have to be mobilized, conduct the defense forward and subsequently in the "chequer-board" system, whereas the heavy peacetime divisions are kept far to the rear, mainly in a counterattack role. This is not acceptable for political and military reasons. It would enable the aggressor to seize a great part of Germany before HATO would commit its strongest forces. The aggressor could then, e.g. by threatening with an escalation to nuclear warp terminate the conflict using the occupied territory as a pawn.
  - (3)Camby allocates a major portion of the manpower available in peacetime about one third to cadre divisions. These troops could not be used for the initial defense against an aggression with little or no warring. It seems that the creation of more present divisions at the account of smaller cadres (not more than 20%) would be more advantageous: It would provide for more combat power available at any given time and yet ensure adequate planning, preparation and execution of a mobilization.
- that the aggressor is bound to some six definable

  main averues of approach. If he would choose to penetrate elsewhere and it is suggested that he is fact
  has this option it would hardly be possible to move
  general reserve and prepare the "chequerboard" defense in time. Camby's claim that the defender ought
  to concentrate his forces as much as the aggressor,
  adapting his plans to the anticipated offense plan
  disrepards the basic differences between offense and
  efense.

#### 3. RESTRUCTURI C

The essence of Canby's restructuring proposals is the creation of a division slice halve the size of the present one with the same foxhole streigth as today. While it is admitted that the present structure of ATO forces, is particular U.S. forces, allows some streamlining without reducing the combat strength, one must recognize that there are certain limitations.

- (1) Modern weapons systems have to have a considerable logistical back up to provide their maximum effectiveters.
- (?) Adequate combat and combat service support must be proto all foundations
  vided to make full use of their capabilities. The promosed centralized combat and combat service support
  system in which the austere division would be "plugged
  in" would guarantee adequate support, and thus maximum effectiveness, only for that part of the army employed at the point of main effort. This is not acceptable because formations not employed at the point of
  main effort need since they normally have wider sectors as much support as others to fulfill their
  mission.
- (1) A strong concentration of combat and combat service support in certain threatened areas is only viable if the capability exists to rapidly shift this main effort if recessary. This would probably not work in war.

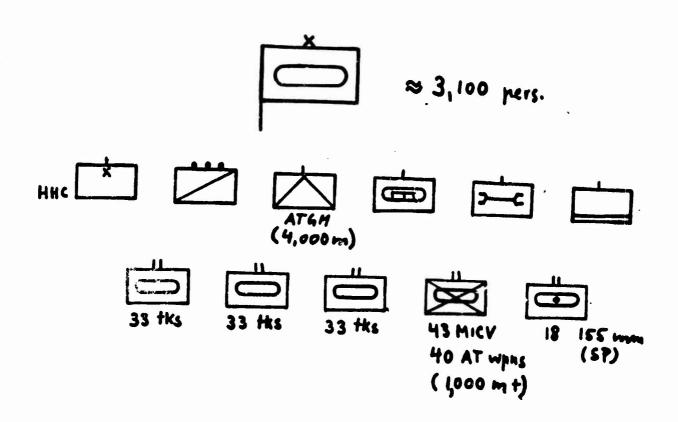
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(4) It is unrealistic that the NATO soldier could live and fight in an as austere environment as the WP soldier can. The structure of the armed forces have recessarily takes into account the social and economic structure of the country.

Detailed calculations as to what the minimum strength of a divisional slice could be under present conditions were not possible. The new structure of the brigade 80 (Figure 3) shows what the German army considers to be necessary in a balanced major combat formation. This structure is characterized by high weapons density and austere support. But again, to be fully effective this brigade depends on sufficient combat and combat service support from higher commands.

The U.S. Army in Europe has undergone some restructuring recently, to include the conversion to M-series TOE, creation of a new tank battalion in the mechanized divisions, elimication of some headquarters, and the Num Amendment restructuring.

## Panzer Brigade 80



The function of maintenance may serve to illustrate some points relative to centralization of combat service support.

A mechanized infartry battalion has 172 vehicles, varying from front line ambulances to tank retrievers (figure 4). The battalion also has a wide variety of communications, ground surveillance, armaments, generators, and other equipment requiring maintenance by trained specialists.

A Soviet battalion has 30 of one type of armored pernoticel carrier, a half dozen odd wheeled vehicles, the radios and weapons on the vehicles, and the individual soldiers' equipment. All mortars, surveillance, medical support, mess, transportation, etc., are provided by the regiment.

have organic maintenance personnel — they are designed to fight independently. The Soviet battalion cannot fight without reinforcement. The basic combined arms team of the Soviet Army is the regiment — which has a sizeable maintenance organization.

Maintenance, therefore, is a function of the concept of the unit's employment, as well as equipment density. Here don't not consistent: He wants to centralize maintenance at higher levels, but wants the defense organized in battalion/(company strong points.

In the area of ammunition, the Soviets are definetely more contralized: The U.S. combat vehicles carry a greater basic load, and the U.S. battalion carries a far greater amount of class V in its organic support platoon trucks. The discussion of ammunition, however, points up the overall consideration of the offensive in centralizing support. The side on the offensive can plan the time and place of the attack, and spot ammunition

. ....

accodingly: the defensive force must have the recessary ammunitio or hard at all points. Contralizing ammunition support in the defensive would be to accept a high risk.

#### FIGURE 4

#### EQUIPMENT DE SITY

(mechanized infantry)

U.S.

SOVIET

Company

76 vehicles

APC

trucks

ATGI

Mortars

Communications

10 vehicles

APC

communications

Battalio\*

172 vehicles

APC

Recon Vehicles

Command Post vehicles

ATCH

Mortars

Radars

mise. wheeled vehicles

medical support

mess support

communications

36 vehicles (annrox)

APC

misc wheeled vehicles

Communications

Regiment

250 vehicles (approx)

APC

Recon vehicles

Tanks

ATGM

Mortars

misc. whosled vehicles

medical support

mess support

Air defense equipment

#### 4. CO CLUSIO 3

J.

The major points in Canby's defense are interconnected. Once a flaw is found in one, such as centralization, or unit replacement, the entire structure tends to come crashing down. On by's nurnose, however, is unascallable: He emphasizes the importance and benefits of technological progress, and stresses the need to integrate technology with tactics and organization to provide the depth and reserves which are now lacking in the ATO defense.

#### Treb ology a d Tacties:

Fresert W.S. defensive doctrine calls for several belts of forces - covering force, GOP, COP, -- forward of the main defensive position. This is not a true defense in depth, however, since the forward forces do not have a defense mission, but one of delay, deception and intelligence gathering. New actitable weapons might give these forces an attrition canability but it is not being fully used. Further, as I stated earlier it is most likely that the initial defensive positions will be attacked by infantry, and our most forward force -- the Cav -- has a poor acti-infantry capability, particularly in periods of reduced visibility or in forested or build-up areas.

The attrition mission must be stressed, and additional forcer must be allocated to the forces forward of the FEBA. Infactor, with its new AT capability must be provided to the covering force, to free the Sheridans to maneuver against developing to be pertrations, Presently there is an unwilling cust to provide strong forces to these echelons, since losses must ultimately be borne by the already thin reserve.

The creation of additional brigade sized units now under your -- the new German brigades and the two U.S. brigades bon I for Europe (at least one of which will be in the ORTHAG area) would be ideal for an improved forward of the FEBA attrition capability.

addition of the infantry squad ATGM (Dragon) to the inventory. This weapon makes it possible to more effectively use the other major infantry ATGM -- the TOW.

Presently, a infantry battalio is reserve required the TOW's, to provide its own anti-tank defence, provide defence in depth or occupy blocking positions. With the Dragon, placing an entire infantry battalion's AT weapons in reserve in a clear waste -- much like placing artillery is reserve. The Battalio AT platoon (12 TOW's) could be better employed of the TWBA, or forward of the TWBA. This would still leave the battalio its pragons and 6 TOW (organic to companies) for blocking missions.

Creation of an AT Company at Brigade, with 12 TOW habitually attached out to each mech battalion on the PEGA of the remainder at critical points -- or attachment of the unit to forces forward of the PEBA -- should be seriously considered.

These are only two of the ways is which present thetical organisatio, and ground thatics can be adapted to improved toch ology.

#### As alter ative operational concept

Carby's use of mobilisation forces in his strategie of cent as the sei forward defe se force is of co vincium, for response discussed earlier. At alternative which would incorporate many of Carby's suggestions could be as following: , see figure 5)

- Norward defense with all procest (amored and mechanised) Formations, including a screet of reinforced Cavidian visions.
- Preparation of a second defense helt by AT-heavy infantry divisions. (These infantry divisions would in peacetime be held at cadre strength of 15 to 20 merce thank be mobilized in an emergency). Only if the forward defense would to longer be tenable, the armored forces would be withdrawn through the second defense belt, and, after regeneration, become the reserve.
- To meet the greater threat along probable avenued of corroach, parrower sectors would be assigned in these areas, and particularly well compaed and trained divisions would be selected for their defense.

The most important advantage of this concept against the Ca by plants that it calls for a strong forward develop using all divisions operational in peacetime. Only a comparatively small portio of the active troops would be used as cadren to san this the mobilization divisions. The concept would be less described to timely warning and give the cadre units time for mobilization. Strong reserves would be available in death if the forward defense should not hold.

mospe of

## Figure 5

## An Alternative

