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CENTRAL INTELLIGENCE AGENCY
WASHINGTON, D.C. 20505

31 October 1980

MEMORANDUM FOR: The Director of Central Intelligence
FROM : John N. McMahon
Deputy Director for Operations
SUBJECT : USSR GENERAL STAFF ACADEMY LESSONS :
Organizing the Combat Employment of the
Rocket Troops and Artillery When Committing
the Front's Second Echelon to Battle

1. The enclosed Intelligence Information Special Report is part of a series now in preparation based on a collection of 29 lessons, classified TOP SECRET, prepared in 1977 for use in the Soviet General Staff Academy. The lessons are broken down into two parts: the first 19 lessons deal with the staff preparation of a front offensive operation with conventional and nuclear weapons; the remaining 10 lessons deal with the conduct of an offensive employing conventional weapons at first with a transition to the use of nuclear weapons. This report is a translation of the lesson detailing the typical rocket troop and artillery order of battle of a front and the nuclear and fire destruction tasks to be accomplished when a second-echelon army is committed to battle in a front offensive across the northern area of West Germany.

2. Because the source of this report is extremely sensitive, this document should be handled on a strict need-to-know basis within recipient agencies.

John N. McMahon

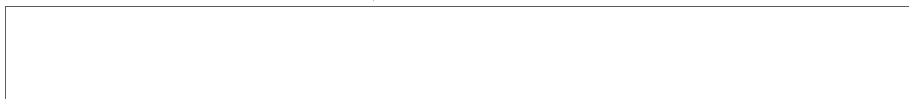
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Intelligence Information Special Report

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COUNTRY USSR

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SUBJECT

GENERAL STAFF ACADEMY LESSON No. 26b: Organizing the Combat Employment of the Rocket Troops and Artillery When Committing the Front's Second Echelon to Battle.

SOURCE Documentary

Summary:

The following report is a translation from Russian of a lesson, classified TOP SECRET, prepared for use at the General Staff Academy of the Armed Forces of the USSR. This lesson is used to instruct students acting as front chiefs of rocket troops and artillery in the tasking, allocation, and requirements of nuclear and conventionally-armed ground force missiles and artillery when a second-echelon army is committed to battle in a front offensive operation across the northern area of West Germany. The lesson reveals that almost one-third more time is devoted to planning and organizing the nuclear destruction than to conventional artillery destruction, with 65 nuclear warheads and 72 launchers allocated to the main axis, and with 825 guns, mortars, and multiple rocket launchers tasked to fire 40,000 rounds in a 15-minute preparation for the commitment on a frontage of 20 km. Also detailed are the composition, locations, targeting, and time/distance factors of the front's missile and artillery units, including three reinforcing artillery divisions from the Reserve of the Supreme High Command.

End of Summary

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I. Lesson subject: Organizing the combat employment of the rocket troops and artillery when committing the front's second echelon to battle.

II. Estimated time for completion of lesson No. 26b:

- group exercise -- three hours;
- individual study by the students -- four hours.

Total -- seven hours.

III. Training objectives of the lesson:

- teach the organization of combat actions of the rocket troops and artillery when committing the front's second echelon to battle;
- give students practice in assessing the situation and condition of the rocket troops and artillery;
- strengthen the students' knowledge of the tasks of the rocket troops and artillery when committing the front's second echelon to battle;
- improve the knowledge and skills of the students in organizing nuclear and fire destruction of the enemy when committing the front's second echelon to battle;
- investigate matters of nuclear and fire destruction of the enemy when committing the front's second echelon to battle.

IV. Method of conducting the lesson -- group exercise on maps.

V. Methodological recommendations on preparing students for the lesson.

During the students' individual study for the lesson, it is recommended that they:

- study the recommended literature and the assignment;
- estimate the situation and condition of the rocket troops and artillery;
- determine the tasks and define the grouping of rocket troops and artillery more precisely;
- perform calculations on the nuclear and fire destruction of the enemy;
- be prepared to report the main aspects of the combat employment of rocket troops and artillery when committing the front's second echelon to

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battle.

PROCEDURE FOR CONDUCTING THE LESSON

1. Check of the students' preparedness for the lesson -- five minutes.
2. Assessment of the combat strength, situation, and condition of the front rocket troops and artillery -- 20 minutes.
3. Organization of nuclear destruction of the enemy by rocket troops when committing the front's second echelon to battle -- 65 minutes.
4. Organization of fire destruction of the enemy by artillery when committing the front's second echelon to battle -- 40 minutes.
5. Lesson director's concluding remarks -- five minutes.

II.

Combat strength, situation, and condition of front rocket troops and artillery.

Students in the role of chief of rocket troops and artillery of the Coastal Front are to report the following:

- the combat strength, situation, and overall combat readiness level of the rocket troops on the axis of the main thrust and in the 10th Tank Army;
- the presence and status of nuclear-armed missiles;
- the combat strength, situation, and condition of the artillery of the 10th Tank Army and of the Reserve of the Supreme High Command /RVGK/ designated to reinforce the 10th Tank Army.

REPORT OF THE CHIEF OF THE ROCKET TROOPS AND ARTILLERY OF THE COASTAL FRONT BASED ON THE SITUATION AT 1930 HOURS 12 SEPTEMBER

At 1930 hours 12 September, in two front, five army, and one corps operational-tactical missile brigades and 28 tactical missile battalions, there are 117 launchers, of which 60 are operational-tactical and 57 are

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tactical. Losses of the rocket troops amount to: 97 missile launchers (45 percent), 42 of them operational-tactical missile launchers (41 percent), and 55 tactical missile launchers (49 percent). The greatest losses have been sustained by the 6th Army (64 percent), the 9th Army (55 percent), and the 7th Army (53 percent).

A grouping of rocket troops is in action on the axis of the main thrust of the front (not counting the 4th Army, 2nd Army Corps, and left-flank divisions of the 9th Army) made up of six missile brigades (two front and four army /brigades/), and 12 tactical missile battalions -- having 72 launchers (49 operational-tactical, 33 tactical) in all.

Front rocket troops have 110 nuclear-armed missiles (41 operational-tactical, 69 tactical).

There are 65 nuclear-armed missiles (34 operational-tactical, 31 tactical) in the rocket troops active on the axis of the main thrust.

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Reference table of launchers and missiles on hand

Formations, large units	Launchers			Operational- tactical missiles				Tactical missiles				Total
	Operational- tactical	Tactical	Total	20	40	100	Total	3	10	200	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13
4th Army	8	9	17	2	1	1	4	3	2	3	8	12
2nd Army Corps	3	6	9	-	1	1	2	1	2	3	6	8
7th Army	7	14	21	1	2	1	4	4	8	4	16	20
6th Army	4	2	6	1	1	-	2	1	2	-	3	5
9th Army	6	12	18	2	1	1	4	3	5	9	17	21
10th Tk Army	9	10	19	2	5	3	10	-	7	6	13	23
2nd Front Msl Bde	9	-	9	1	2	2	5	-	-	-	-	5
2nd Front Mbl Msl Tech Base	-	-	-	-	1	-	1	-	-	-	-	1
3rd Front Msl Bde	14	-	14	2	5	-	7	-	-	-	-	7
3rd Front Mbl Msl Tech Base	-	-	-	1	1	-	2	-	-	-	-	2
3rd Sep Msl Transp Bn	-	-	-	-	-	-	-	-	2	4	6	6
front subordi- nation	-	4	4	-	-	-	-	-	-	-	-	-
Total at 1930 hrs 12 Sep	60	57	117	12	20	9	41	12	28	29	69	110

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All tactical missile brigades and battalions (excluding the 15th, 22nd, 29th separate missile battalions of the 10th Tank Army) and the 28th Separate Missile Battalion of the 7th Army are located in primary siting areas, and it is necessary to deploy the 15th and 22nd separate missile battalions in siting areas on the line of commitment to battle of the 10th Tank Army by 0500 hours 13 September.

Based on this disposition and status, rocket troops can deliver nuclear strikes within the following times:

- 14 tactical launchers within eight minutes from Readiness No. 2;
- 11 operational-tactical launchers within ten minutes from Readiness No. 2 (total -- 25 launchers);
- 15 launchers within 15 minutes (total -- 40 launchers);
- 19 launchers within 18 minutes (total -- 59 launchers, of which 45 launchers /25 operational-tactical, 20 tactical/ are on the axis of commitment of the 10th Tank Army).

Artillery

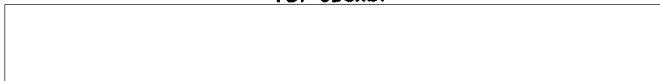
In the foregoing battles, especially from the initial nuclear strike of the enemy, front artillery sustained considerable losses. The results of measures which have been conducted to reestablish the combat effectiveness of artillery in the front are as follows:

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Combat strength, allocation, and status of front artillery

Formations, large units	Allocation of RVGK artillery	Artillery Strength					
		For firing from indirect firing positions			Antitank means		
		Per T/O & E	on hand	Percent losses	Per T/O & E	on hand	Percent losses
4th Army	6th Arty Div of the RVGK (minus 1st Gun Arty Bde and 4th HOW Arty Bde)	1008	678	39	324	229	29
2nd Army Corps	1st Gun Arty Bde and 4th HOW Bde of the 6th Arty Div of the RVGK	576	410	29	195	153	20
7th Army	2nd Gun Arty Bde of the 8th Arty Div of the RVGK	1656	850	50	735	374	50
6th Army	8th Arty Div (minus 14th Hvy HOW Bde, 11th Rkt Lchr Arty Bde, 2nd Gun Arty Bde)	324	148	58	72	36	50
9th Army	15th Hvy HOW Bde and 12th Rkt Lchr Arty Bde of the 11th Arty Div of the RVGK	1332	755	44	426	236	45
10th Army	14th Hvy HOW Bde, 11th Rkt Lchr Arty Bde of the 8th Arty Div; 11th Arty Div (minus 15th Hvy HOW Bde and 12th Rkt Lchr Arty Bde)	972	753	25	102	77	25
4th AT Arty Bde of the RVGK	<u>Front</u> antitank reserve				108	81	31
5th AT Arty Bde of the RVGK	<u>Front</u> antitank reserve				108	62	40



Formations, large units	Allocation of RVGK artillery	Artillery Strength					
		For firing from indirect firing positions			Antitank means		
		Per T/O & E	on hand	Percent losses	Per T/O & E	on hand	Percent losses
Divisions of front subordi- nation:							
9th Tank Division		108	36	67	9	1	89
19th Tank Division		108	20	80	9	2	78
25th Tank Div		108	51	51	9	3	67
<u>Total for the front</u>		6192	3701	40	2097	1253	40
Including:							
6th Arty Div of the RVGK		360	245	29	-	-	-
8th Arty Div of the RVGK		360	216	40	-	-	-
11th Arty Div of the RVGK		360	277	33	-	-	-



At 1930 hours 12 September, there are 3,701 guns, mortars, and multiple-round rocket launchers for firing from indirect firing positions and 1,253 items of antitank means.

Overall losses of artillery amount to 40 percent. The artillery of the 6th and 7th armies has sustained the greatest losses. Artillery losses of the RVGK amount to 34 percent.

The following artillery is in action on the axis of commitment to battle of the 10th Tank Army:

Formations	Large units	Number of guns, mortars, and multiple-round rocket launchers	Antitank means	Distance from line of commitment
7th Army	Army artillery of the 7th Army	77	37	30 km
	2nd Gun Arty Bde of the 8th Arty Div	51	-	10 km
	Artillery of the 17th MtzR Div	103	51	10 km
6th Army	Army artillery of the 6th Army	71	34	10 km
	8th Arty Div (minus 2nd Gun Arty Bde)	165	-	50 km
	Artillery of the 5th Tk Div	31	4	10 km
9th Army	11th Arty Div (minus 15th Hvy HOW Bde and 12th Rkt-Lchr Arty Bde)	202	-	8th Hvy HOW Bde -- 50 km

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Formations	Large units	Number of guns, mortars, and multiple-round rocket launchers	Antitank means	Distance from line of commitment
				6th HOW Bde -- 100 km 3rd Gun Arty Bde -- 50 km
10th Tank Army	Artillery of the 15th Tk Div	102	9	100 km
	Artillery of the 22nd Tk Div	106	8	175 km
	Army artillery of the 10th Tank Army	137	-	90 km
	Front antitank reserve	-	143	
Total		1045	286	

It had been planned for the 11th Artillery Division of the RVGK (minus the 15th Heavy Howitzer Brigade and the 12th Rocket Launcher Artillery Brigade) to reinforce the 10th Tank Army during its commitment to battle. Artillery brigades of the 11th Artillery Division are in action in the offensive zone of the 9th Army:

3rd Gun Artillery Brigade -- as a part of the 9th Army Artillery Group in the area: FEGGENDORF, NIENSTEDT, (excluding) MAYZEN /probably MEINSEN/.

12th Rocket Launcher Artillery Brigade -- as a part of the 9th Army Rocket Launcher Artillery Group in the area: LANGENHOLZHAUSEN, ASENDORF, HOHENHAUSEN;

8th Heavy Howitzer Brigade is on the march and the head of the column is on the southwest outskirts of HANNOVER;

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6th Gun Artillery Brigade is concentrated in the area of the forest 12 km southeast of WOLFSBURG;

15th Heavy Howitzer Brigade is reinforcing the 18th Motorized Rifle Division in the area of DALBORN, MASPE, KHENTRU /probably HENTRUP/.

Regrouping the 11th Artillery Division (minus the 15th Heavy Howitzer Brigade and the 12th Rocket Launcher Artillery Brigade) to the line of commitment of the 10th Tank Army will require up to 8.5 hours (a march of 160 km /will require/ 6.5 hours, teardown and deployment -- 2 hours). The regrouping is to begin immediately.

Two reconstituted brigades of the 8th Artillery Division of the RVGK (the 14th Heavy Howitzer Brigade and the 11th Rocket Launcher Artillery Brigade) are located on the axis of commitment to battle of the 10th Tank Army. It is advisable to transfer these brigades to reinforce the 10th Tank Army.

Front Antitank Reserve No. 1 -- 4th Antitank Artillery Brigade -- is moving with the head of the column at OSTENHOLZ; Front Antitank Reserve No. 2 -- 5th Antitank Artillery Brigade -- is moving with the head of the column five kilometers east of LEHRTE.

Ammunition supply for front artillery*:

	4th Army	2nd Army Corps	7th Army	6th Army	9th Army	10th Tank Army	RVGK artillery	Divisions of front subordination	Total
In divisions	0.6	0.5	0.6	0.7	0.7	0.8	1.0	1.0	0.7
In army units	0.6	0.5	0.6	0.7	0.7	0.8	-	-	0.7
At army bases	0.1	0.3	0.1	0.1	0.2	0.2	-	-	0.2
Total in the armies	0.7	0.8	0.7	0.8	0.9	0.9 /sic/	-	-	0.9
At front bases	-	-	-	-	-	-	-	-	1.0
Total in the front	-	-	-	-	-	-	-	-	1.9

* comment: Amounts given apparently are units of fire.

Conclusions:

1. The strength of the rocket troops on the axis of the main thrust of the front (72 launchers) and the presence of nuclear-armed missiles (65) allow tasks associated with nuclear destruction of the enemy when committing the front's second echelon to battle to be successfully accomplished.

2. Artillery strength on the axis of the main thrust of the front (1,045 guns and 286 items of antitank means, taking maneuvering into account) allows tasks associated with the fire destruction of the enemy to be accomplished. Maneuvering to the line of commitment of the 10th Tank Army will require up to eight hours.

3. Rocket troops and artillery of the 10th Tank Army are in readiness to act when the army is committed to battle.

III. ORGANIZING NUCLEAR DESTRUCTION OF THE ENEMY BY ROCKET TROOPS WHEN COMMITTING THE FRONT'S SECOND ECHELON TO BATTLE.

Students in the role of chief of rocket troops and artillery of the Coastal Front are to report:

- tasks of the rocket troops with regard to nuclear destruction of the enemy when the 10th Tank Army is committed to battle;
- targets of destruction;
- strength of front rocket troops being brought in for nuclear destruction of the enemy when the 10th Tank Army is committed to battle;
- procedure of nuclear destruction of the enemy;
- missile support.

CONTENTS OF THE REPORT OF THE CHIEF OF FRONT ROCKET TROOPS AND ARTILLERY

a) Tasks of the rocket troops

The students are to report the tasks of the rocket troops based on an analysis of the enemy's grouping, the anticipated nature of his actions, the importance and location of targets, the degree of reliability of reconnaissance data on the targets, the decision of the front commander on committing the front's second echelon to battle, and the status and capabilities of rocket troops.

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In conformity with the situation which has developed in the offensive zone of the front's troops by 1930 hours 12 September and the decision of the front commander on committing the front's second echelon to battle, rocket troops will have the following tasks to fulfill:

1. In order to retain nuclear superiority, destroy the enemy's means of nuclear attack which have been detected by 1930 hours 12 September -- the 4th Pershing Missile Squadron in the area of RIJSSEN, LOCHEM, VEGDAM /sic -- probably in The Netherlands/; the 24th Lance Missile Regiment in the area of AL'FRED /probably ALFERDE/, ESCHERSHAUSEN, EINBECK; delivery aircraft at airfields in the areas of APELDOORN, RHEINE, and also the tactical nuclear means detected in the armies' offensive zones;

-- destroy the command post of the Brown 1st Army Corps which has been detected;
-- complete the rout of the encircled enemy groupings by employing three to five nuclear warheads.

2) Effective the morning of 13 September in cooperation with front aviation and artillery, be in readiness to destroy newly detected means of nuclear attack of the enemy and the main grouping of troops in the zone of commitment to battle of the 10th Tank Army.

By morning, it is anticipated the following /will be destroyed/:

-- the 1st and 3rd Pershing squadrons, 50th Lance Missile Regiment and the 150th Lance Missile Battalion;
-- delivery aircraft at four airfields;
-- control posts: the command posts of the Northern Army Group, Brown 5th Army Corps, Lilac 1st and 2nd army corps;
-- control and warning centers in the areas of LINGEN and ENSCHEDE;
-- two batteries of the 24th Nike-Hercules Battalion;
-- combat-effective subunits in the zone of commitment and on the flanks: Brown 1st and 11th motorized infantry divisions, Brown 3rd and 7th tank divisions, Lilac 1st, 101st, and 301st motorized infantry divisions, Lilac 5th Motorized Infantry Division, Brown 15th Motorized Infantry Division, and the 27th Airborne Brigade.

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Targets of destruction	Number of targets for rocket troops	Number of targets for aviation
1	2	3
<p>1) <u>Tasks to be accomplished on 12 September</u></p> <p>a) Destruction of the enemy's nuclear means:</p> <ul style="list-style-type: none">-- Pershing fire platoons (4th Squadron) 1-- batteries of Lance 24th Missile Regiment 1-- delivery aircraft at airfields 2-- tactical nuclear means (batteries, platoons) 3 <p>b) Destruction of Brown 1st Army Corps command post 1</p> <p>c) Destruction of troops:</p> <ul style="list-style-type: none">-- tank battalions 4 <p>Total 12</p>		2 - - 1 - - 3
<p>2) <u>Tasks to be accomplished in a massed nuclear strike on the morning of 13 September</u></p> <p>a) Destruction of enemy nuclear means:</p> <ul style="list-style-type: none">-- fire platoons of the 1st and 3rd Pershing squadrons 5		-

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Targets of destruction	Number of targets for rocket troops	Number of targets for aviation
1	2	3
-- batteries of the Lance 50th Missile Regiment and 150th Missile Battalion	2	-
-- delivery aircraft at airfields	4	2
b) Destruction of control posts:		
-- command posts of the Northern Army Group, Brown 5th Army Corps, Lilac 1st and 2nd army corps	4	-
-- control and warning centers, command post of the 2nd Allied Tactical Air Force	2	1
c) Destruction of air defense targets:		
-- Hawk batteries	-	1
-- batteries of the 24th Nike-Hercules Battalion	2	3
2. Destruction of troops:		
Blue 2nd Armored Division	-	3

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Targets of destruction	Number of targets for rocket troops	Number of targets for aviation
1	2	3
Brown 11th Motorized Infantry Division	5 basic combat subunits	
Brown 3rd Tank Division	3 " " "	
Brown 1st Motorized Infantry Division	2 " " "	
Brown 7th Tank Division	1 " " "	
Lilac 1st Motorized Infantry Division	2 " " "	
Lilac 5th Motorized Infantry Division	1 " " "	4
Lilac 101st Motorized Infantry Division	1 " " "	
Lilac 301st Motorized Infantry Division	2 " " "	
Lilac 5th Army Corps	/3/ " " "	16
27th Airborne Brigade	1 " " "	
Brown 25th /sic -- 24th/ Infantry Division		5
Brown 25th Infantry Division		3
Total	40	38

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Conclusions:

1. The enemy nuclear means detected by 1930 hours 12 September and the command post of the Brown 1st Army Corps will be destroyed immediately. The rout of the encircled enemy grouping is to be accomplished according to the decisions of the commanders of the armies;

2. A massed nuclear strike by rocket troops in cooperation with front aviation will be made ready and delivered to accomplish the remaining tasks before the 10th Tank Army is committed to battle.

/See charts on pp. 20-21/

1) To destroy the enemy nuclear means detected by 1930 hours 12 September, the command post of the Brown 1st Army Corps, and encircled groupings, it is necessary to allocate four operational-tactical launchers (of the 3rd Front Missile Brigade, 6th and 7th army missile brigades) and eight tactical launchers. In all, 12 launchers are to be allocated.

2) To deliver a massed nuclear strike of the front when committing the front's second echelon to battle, it is planned to allocate the following complement of rocket troops:

- two front missile brigades -- eight launchers;
- army missile brigades of the 7th, 6th, and 9th armies and the 10th Tank Army -- 12 launchers, and missile battalions of the first-echelon divisions of the 10th Tank Army -- six launchers;
- missile battalions of divisions active in the zone of commitment of the front's second echelon -- (5th and 17th separate missile battalions) -- four launchers;
- missile battalions to destroy the enemy nuclear means and groupings of troops on the flanks of the zone of commitment of the 10th Tank Army (4th, 12th, 10th, 6th, 20th, 26th separate missile battalions) -- 14 launchers.

In all, it is planned that 40 launchers, including 20 operational-tactical and 20 tactical, be allocated.

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Complement of rocket troops allocated for nuclear destruction of the enemy

The following can be allocated for nuclear destruction of the enemy:

Large units	as of 1930 hours 12 September					When committing the 10th Tank Army to battle on the morning of 13 September				
	Launchers			Missiles	Can be employed	Launchers			Missiles	Can be employed
	Operational-tactical	Tactical	Total			Operational-tactical	Tactical	Total		
1	2	3	4	5	6	7	8	9	10	11
2nd Front Msl Bde.	9	-	9	5	5	9	-	9	6	6
3rd Front Msl Bde.	14	-	14	7	7	14	-	14	9	9
7th Army Msl Bde.	7	-	7	2	2	7	-	7	4	4
6th Army Msl Bde.	4	-	4	1	1	4	-	4	2	2
9th Army Msl Bde.	6	-	6	3	3	6	-	6	4	4
10th Army Msl Bde.	9	-	9	/7/	7	9	-	9	9	9
Total operational-tactical:	49	-	49	25	25	49	-	49	34	34
1st Separate /Tactical/ Missile Bn	-	1	1	1	1	-	1	1	1	1
4th Separate Missile Bn	-	3	3	2	2	-	3	3	3	3
11th Separate Missile Bn	-	1	1	1	1	-	1	1	2	1
12th Separate Missile Bn	-	2	2	2	2	-	2	2	3	2
13th Separate Missile Bn	-	1	1	1	1	-	1	1	1	1
28th Separate Missile Bn	-	3	3	5	-	-	3	3	3	3
17th Separate Missile Bn	-	2	2	2	2	-	2	2	2	2

The following can be allocated for nuclear destruction of the enemy:

Large units	as of 1930 hours 12 September					When committing the 10th Tank Army to battle on the morning of 13 September				
	Launchers			Missiles	Can be employed	Launchers			Missiles	Can be employed
	Operational-tactical	Tactical	Total			Operational-tactical	Tactical	Total		
1	2	3	4	5	6	7	8	9	10	11
14th Separate Missile Bn	-	1	1	1	1	-	1	1	1	1
5th Separate Missile Bn	-	2	2	2	2	-	2	2	3	2
15th Separate Missile Bn	-	3	3	3	-	-	3	3	4	3
22nd Separate Missile Bn	-	4	4	4	-	-	4	4	5	4
29th Separate Missile Bn	-	3	3	4	-	-	3	3	3	3
10th Separate Missile Bn	-	1	1	2	1	-	1	1	3	1
20th Separate Missile Bn	-	1	1	2	1	-	1	1	3	1
6th Separate Missile Bn	-	2	2	2	2	-	2	2	3	2
26th Separate Missile Bn	-	3	3	2	2	-	3	3	4	3
18th Separate Missile Bn	-	3	3	1	1	-	3	3	3	3
21st Separate Missile Bn	-	1	1	1	1	-	1	1	1	1
23rd Separate Missile Bn	-	1	1	1	1	-	1	1	1	1
Total tactical	-	38	38	39	21	-	38	38	49	38
Total	49	38	87	64	46	49	38	87	87	72

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The complement of front rocket troops allocated for nuclear destruction of the enemy when committing the 10th Tank Army to battle.

Formations	Large units, units	Allocated to strike on 12 September		Allocated to strike on 13 September	
		Operational-tactical launchers	Tactical launchers	Operational-tactical launchers	Tactical launchers
1	2	3	4	5	6
<u>Front brigades</u>	<u>2nd Front Missile Brigade</u>	-	-	4	-
	<u>3rd Front Missile Brigade</u>	2	-	4	-
7th Army	7th Army Missile Brigade	1	-	2	-
	1st Separate Missile Bn	-	1	-	-
	4th Separate Missile Bn	-	-	-	3
	/of/ 11th /Motorized Rifle Div/ 11th Separate Missile Bn	-	1	-	-
	/of/ 1st /sic--12th Motorized Rifle Div/ 12th Separate Missile Bn	-	1	-	2

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Formations	Large units, units	Allocated to strike on 12 September		Allocated to strike on 13 September	
		Operational- tactical launchers	Tactical launchers	Operational- tactical launchers	Tactical launchers
1	2	3	4	5	6
	17th Separate Missile Bn	-	-	-	2
	13th Separate Missile Bn	-	1	-	-
6th Army	6th Army Missile Brigade	1	-	1	-
	5th Separate Missile Bn	-	1	-	2
10th Army	10th Army Missile Brigade	-	-	5	-
15th Sep- arate Msl Bn /sic/	15th Separate Missile Bn	-	-	-	3
	22nd Separate Missile Bn	-	-	-	3
9th Army	9th Army Missile Brigade	-	-	4	-
	10th Separate Missile Bn	-	-	-	1

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Formations	Large units, units	Allocated to strike on 12 September		Allocated to strike on 13 September	
		Operational- tactical launchers	Tactical launchers	Operational- tactical launchers	Tactical launchers
1	2	3	4	5	6
	20th Separate Missile Bn	-	-	-	1
	6th Separate Missile Bn	-	-	-	2
	26th Separate Missile Bn	-	1	-	1
	18th Separate Missile Bn	-	1	-	1
	23rd Separate Missile Bn	-	1	-	-
Total		4	8	20	20 /sic/

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Front missile brigades, missile brigades of the 7th, 6th, and 9th armies and missile battalions of first-echelon divisions have been deployed in siting areas. Missile battalions of 10th Tank Army divisions are in the area of concentration in readiness to deploy in front of the army's line of commitment to battle.

c) Procedure for nuclear destruction of the enemy

1) Destruction of nuclear attack means, command posts and control posts of the enemy which have been detected is to be accomplished immediately. To fulfill the tasks, on-alert means will be assigned /to strike/ from Readiness No. 2 (strikes by tactical missiles -- within eight minutes, strikes by operational-tactical missiles -- within ten minutes).

Destruction of encircled groupings will be carried out by decision of the commanders of the armies.

2) A reconnaissance of enemy targets planned for destruction in a massed nuclear strike will be conducted from 0600 hours to 0730 hours 13 September.

3) Upon the arrival of the columns of the 15th and 22nd tank divisions of the 10th Tank Army at a line six to eight kilometers from the enemy (at 0800 hours 13 September), massed nuclear strikes will destroy newly detected means of nuclear destruction and the command posts, and the opposing enemy grouping and his approaching reserves will be routed.

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Allocation of targets among missile large units and units

Targets of destruction	Number of strikes, their yield and who delivers them	Level of destruction (in percentages)
1	2	3
a) Destruction of nuclear means:		
4th Pershing Squadron	1 (3rd Front Missile Brigade -- 1 of 40 kt);	P = 95
24th Lance Missile Regiment	1 (26th Separate Missile Battalion -- 1 of 20 kt);	P = 96
delivery aircraft at airfields	2 (7th Army Missile Brigade -- 1 of 40 kt; 3rd Front Missile Brigade -- 1 of 40 kt);	S = 60
tactical nuclear means: Honest John batteries of the Brown 14th Motorized Infantry Division	1 (11th Separate Missile Battalion -- 1 of 10 kt);	P = 93
109th Honest John Battalion	1 (12th Separate Missile Battalion -- 1 of 10 kt);	P = 93
Honest John batteries of the Brown 3rd Tank Division	1 (5th Separate Missile Battalion -- 1 of 10 kt);	P = 93
b) Destruction of troops:		
tank battalion/s/ of the 15th Motorized Infantry Division	2 (1st Separate Missile Battalion -- 1 of 3 kt; 13th Separate Missile Battalion -- 1 of 10 kt);	S = 39

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Targets of destruction	Number of strikes, their yield and who delivers them	Level of destruction (in percentages)
1	2	3
tank battalion of the Blue 4th Armored Division	1 (18th Separate Missile Battalion -- 1 of 10 kt);	S = 36
tank battalion of the Blue 1st Armored Division	1 (23rd Separate Missile Battalion -- 1 of 10 kt);	S = 36
c) Command post of the Brown 1st Army Corps	1 (6th Army Missile Brigade -- 1 of 40 kt);	S = 41

2) Targets to be destroyed on the morning of 13 September

a) Destruction of nuclear means:		
-- Pershing squadron	3 (3rd Front Missile Brigade -- 3 of 40 kt);	P = 95
-- 1st Pershing Squadron	2 (7th Army Missile Brigade -- 1 of 100 kt; 9th Army Missile Brigade -- 1 of 100 kt);	P = 98
-- 50th Lance Regiment	1 (26th Separate Missile Battalion -- 1 of 20 kt);	P = 95
-- 150th Lance Battalion	1 (10th Army Missile Brigade -- 1 of 40 kt);	P = 98
-- delivery aircraft at airfields	4 (6th Army Missile Brigade -- 1 of 40 kt; 3rd Front Missile Brigade -- 1 of 40 kt; 2nd Front Missile Brigade -- 2 of 40 kt);	/S/ = 60

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Targets of destruction	Number of strikes, their yield and who delivers them	Level of destruction (in percentages)
1	2	3
-- command post of the Northern Army Group	1 (10th Army Missile Brigade -- 1 of 100 kt);	/S/ = 40
-- command posts of army corps (5th, 1st, 2nd)	3 (9th Army Missile Brigade -- 1 of 20 kt; 7th Army Missile Brigade -- 1 of 40 kt; 10th Army Missile Brigade -- 1 of 20 kt);	/S/ = 40
-- control and warning centers	2 (9th Army Missile Brigade -- 1 of 20 kt; 6th Army Missile Brigade -- 1 of 20 kt);	P = 70
-- batteries of Nike-Hercules surface-to-air missiles	2 (2nd Front Missile Brigade -- 1 of 20 kt, 1 of 40 kt);	P = 91
-- <u>destruction of troops:</u>		
Brown 11th Motorized Infantry Division	5 (17th Separate Missile Battalion -- 1 of 20 kt; 5th Separate Missile Battalion -- 1 of 3 kt; 22nd Separate Missile Battalion -- 1 of 10 kt, 2 of 20 kt);	
Brown 3rd Tank Division	3 (22nd Separate Missile Battalion -- 2 of 10 kt; 5th Separate Missile Battalion -- 1 of 20 kt);	

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Targets of destruction	Number of strikes, their yield and who delivers them	Level of destruction (in percentages)
1	2	3
Brown 1st Motorized Infantry Division Brown 7th Tank Division Brown 15th Motorized Infantry Division Lilac 5th Motorized Infantry Division Lilac 101st Motorized Infantry Division Lilac 301st Motorized Infantry Division 27th Airborne Brigade Lilac 1st Motorized Infantry Division	2 (10th Army Missile Brigade -- /1 of/ 40 kt; 22nd Separate Missile Battalion -- /1 of/ 20 kt); 1 (10th Separate Missile Battalion -- 1 of 20 kt); 3 (4th Separate Missile Battalion -- 1 of 3 kt, 2 of 10 kt); 1 (17th Separate Missile Battalion -- 1 of 20 kt); 1 (20th Separate Missile Battalion -- 1 of 20 kt) 2 (6th Separate Missile Battalion -- 1 of 3 kt, 1 of 20 kt); 1 (10th Army Missile Brigade -- 1 of 20 kt); 2 (12th Separate Missile Battalion -- 1 of 10 kt, 1 of 20 kt)	
Total	40 /sic/ strikes (20 operational-tactical, 20 tactical)	

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Analysis of the destruction effectiveness indices

An analysis of the destruction effectiveness indices for enemy targets makes it possible to draw the conclusion that during delivery of massed, grouped, and single nuclear strikes, the nuclear attack means, control posts, delivery aircraft at airfields, and batteries of Nike-Hercules surface-to-air missiles will be destroyed. With regard to grouped targets, the number of basic subunits to be destroyed by nuclear weapons will exceed 60 percent.

2) Missile support:

-- missiles located in army mobile missile technical bases and front mobile missile technical bases are to be delivered to missile brigades and missile battalions of the division by 0300 hours 13 September.

In conformity with the front commander's decision on the offensive operation, the 10th Tank Army is to be issued 26 nuclear-armed missiles, of which 10 are operational-tactical and 16 tactical.

-- The presence, inflow, and expenditure of nuclear warheads allocated to the 10th Tank Army will be as follows:

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Designation	Nuclear-armed missiles								Combined total
	Operational-tactical				Tactical				
	20 kt	40 kt	100 kt	Total	3 kt	10 kt	20 kt	Total	
Allocated for the operation	4	5	1	10	1	8	7	16	26
On hand at 1930 hours 12 September	2	5	3	10	-	7	6	13	23
To arrive during the operation	2	-	-	2	1	-	1	2	4
Expenditure during commitment to battle	2	2	1	5	-	3	3	6	11

-- following the fulfilment by rocket troops of the tasks of the nuclear destruction of the enemy on 12 September and following the delivery of a massed nuclear strike at 0800 hours 13 September, 58 missiles will remain in the front, 17 of them operational-tactical and 41 tactical.

IV. ORGANIZATION OF FIRE DESTRUCTION OF THE ENEMY BY ARTILLERY WHEN COMMITTING THE FRONT'S SECOND ECHELON TO BATTLE

Students in the role of chief of rocket troops and artillery of the Coastal Front are to report:

- tasks of artillery regarding fire destruction of the enemy when committing the 10th Tank Army to battle;
- the grouping of artillery when committing the 10th Tank Army to battle;
- the composition of artillery allocated for fire destruction of the enemy when committing the 10th Tank Army to battle;

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- the procedure of fire destruction of the enemy;
- movement forward and regrouping of artillery.

Contents of the report of the front chief of rocket troops and artillery:

a) Artillery tasks:

In conformity with the situation which has developed in the offensive zone of the front's troops and the front commander's decision on committing the 10th Tank Army to battle, the artillery is to fulfill the following tasks:

-- in order to reliably destroy the enemy by fire before the 10th Tank Army is committed to battle, achieve fire superiority over him, and cover the advance and deployment, /the artillery is to/ destroy tactical nuclear means, artillery and mortar batteries of the Brown 11th Motorized Infantry Division and the 3rd Tank Division, the command posts of the divisions, brigades, and battalions, the air defense and electronic neutralization means, antitank means, tanks and personnel of the enemy in front of the line of commitment and on the flanks and in the area of STUHREN, WILDESHAUSEN, DIEPHOLZ, WEHRBLECK;

-- with the commitment of the 10th Tank Army to battle, the artillery will engage in continuous combat against the enemy nuclear means, artillery, tanks, antitank means, command posts, and air defense means of the Brown 1st Army Corps to retain fire supremacy over the enemy; and it will cover the flanks of our troops, consolidate captured lines, opportunely suppress the enemy's reserves, and prevent him from consolidating on intermediate lines.

Artillery will effectively destroy the enemy during the assault crossing of water obstacles and repel his possible counterthrusts (Brown 5th Army Corps). It is to establish conditions favoring the rapid development of the offensive operation of the 10th Tank Army.

b) Precise definition of the artillery grouping when committing the 10th Tank Army to battle

In determining the artillery reinforcement of the second-echelon army, one proceeds from the artillery that is needed to establish artillery groups of required strength in regiments, divisions, and armies.

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Requirements in artillery reinforcement of the 10th
Tank Army to establish artillery groupings:

Designation of artillery groups	Make-up of the groups (artillery battalions)	Number of groups in the army	Required battalions
Regimental artillery group of first-echelon regiments	2 to 3	6	12 to 18 average - 15
Division artillery group of first-echelon divisions	3 to 4	2	8
Army artillery group	5 to 8 average - 7	1	7
Army rocket launcher artillery group	3 to 7 average - 5	1	5
Total required:	-	-	35
Held in the division artillery of two first-echelon divisions and in army artillery	-	-	16
Requirement of the army in artillery reinforcement	-	-	19

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To establish the required grouping, it is necessary to reinforce the 10th Tank Army with up to an artillery division of the Reserve of the Supreme High Command /RVGK/. Based on this, in the commitment to battle of the 10th Tank Army it is advisable to use as reinforcement the 11th Artillery Division of the RVGK (minus the 15th Heavy Howitzer Brigade and the 12th Rocket Launcher Artillery Brigade) and the 14th Heavy Howitzer Brigade and the 11th Rocket Launcher Artillery Brigade of the 8th Artillery Division of the RVGK.

This will enable the following artillery groups to be established in the 10th Tank Army on the line of commitment to battle /see the chart on the following page/.

Thus, by using organic artillery and artillery of the RVGK in the 10th Tank Army during commitment to battle, artillery groups will be established consisting of: regimental artillery group -- two to three artillery battalions; division artillery groups -- three artillery battalions; army rocket launcher artillery group -- seven artillery battalions; army artillery group -- nine artillery battalions.

c) Determination of the artillery complement to be allocated from the first-echelon army to accomplish the tasks of fire destruction of the enemy when committing the 10th Tank Army to battle.

Based on the front commander's decisions, and the enemy's grouping and the nature of his actions, the 10th Tank Army will deliver the main attack along the adjacent flanks of two divisions (15th and 22nd tank divisions).

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Reinforcement of divisions	Composition of artillery groups				Total
	Regimental artillery groups of first-echelon regiments	Division artillery groups	Army rocket launcher artillery group	Army artillery group	
15th Tank Division with the 14th Heavy Howitzer Brigade, 3rd and 4th battalions of the 6th Howitzer Artillery Brigade	motorized rifle regiment - 15th Arty Rgt (minus 3rd Arty Bn); 45th Tk Rgt - 3rd and 4th bns of the 14th Hvy HOW Bde and the 3rd Bn of the 15th Arty Rgt; 46th Tk Rgt - 3rd and 4th bns of the 6th HOW Bde	14th Hvy HOW Bde (minus the 3rd and 4th arty bns), 15th Sep Rkt Lchr Arty Bn	10th Army Rkt Lchr Arty Rgt and the 11th Rkt Lchr Bde	10th Army Arty Bde and the 3rd Gun Arty Bde	
22nd Tank Division with the 8th Heavy Howitzer Brigade, 6th Howitzer Artillery Brigade (minus the 3rd and 4th artillery battalions)	motorized rifle regiment - 22nd Arty Rgt (minus the 3rd Arty Bn); 66th Tk Rgt - 3rd and 4th bns of the 8th Hvy HOW Bde and the 3rd Bn of the 22nd Arty Rgt; 67th Tk Rgt - 6th HOW Bde (minus the 3rd and 4th arty bns)	8th Hvy HOW Bde (minus the 3rd and 4th arty bns), 22nd Sep Rkt Lchr Arty Bn			
<u>Number of artillery battalions:</u>					
Organic	6	2	3	5	16
Reinforcement	8	4	4	4	20
Total	14	6	7	9	36

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A calculation of the requirement for artillery to be allocated to accomplish the tasks of fire destruction of the enemy when committing the 10th Tank Army to battle is given in the following table:

Aspects of calculation		Sources from from which data obtained
1	2	3
Strength and status of the enemy in the zone of commitment to battle of the 10th Tank Army	Brown 11th Motorized Infantry Division, 3rd Tank Division, reinforced corps artillery regiments, losses 60 to 70 percent. Defense hurriedly taken up, personnel under cover, each division on a front of 30 km	Reconnaissance data of <u>front</u> staff
Possible sector for artillery preparation when committing the 10th Tank Army to battle	20 km	By decision of the 10th Tank Army commander
Artillery requirement when committing the <u>front's</u> second echelon to battle (pieces)	$1871 + 182 = 2053$ Counting losses: $2053 \times 0.4 = 821$	Method of <u>ET</u> / <u>?operating-technical/</u> calculations, accession No. 104952, table S2

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Aspects of calculation		Sources from from which data obtained
1	2	3
Capabilities for allocation of artillery of the 10th Tank Army /pieces/	Army artillery:	
	10th Army Missile Bde	71
	10th Army Rocket Launcher Regt	46
	Artillery of the 15th Tank Division	102
	Artillery of the 22nd Tank Division	106
	<hr/>	
	Total	325
Capabilities for allocation of reinforcement artillery of the 10th Tank Army	From the 11th Artillery Division:	
	3rd Gun Artillery Bde	65
	8th Heavy Howitzer Bde	70
	6th Howitzer Bde	60
	From the 8th Artillery Division:	
	14th Heavy Howitzer Bde	62
11th Rocket Launcher Bde	57	
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	Total	314

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Aspects of calculation		Sources from from which data obtained
1	2	3
Required allocation of artillery of the troops operating forward	821-(325+314) = 191 pieces To be allocated: <u>from the 7th Army:</u> Artillery of the 17th Motorized Rifle Div 42 2nd Gun Artillery Bde 51 <u>from the 6th Army:</u> Artillery of the 5th Tank Division 31 Army artillery 71 <hr/> Total 195 guns	

Thus, to accomplish the fire destruction of the enemy when committing the 10th Tank Army to battle, it is necessary to bring in 821 guns, 630 of them by drawing on artillery of the 10th Tank Army and its reinforcement and 191 guns by drawing on the artillery of the troops operating forward. The average density of artillery in the zone of commitment to battle (in commitment sectors) is $825:20 = 41$ guns, mortars, and multiple-round rocket launchers per kilometer of frontage.

d) Procedure for fire destruction of the enemy

In participating in the fire destruction of the enemy, the artillery will conduct the artillery preparation of the attack, artillery support of the attack, and artillery close support of the troop offensive in the depth.

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Calculation for planning the artillery preparation of an attack (fire destruction of the enemy) when committing the 10th Tank Army to battle.

Composition and status of the enemy in the zone of commitment of the army	Sector of artillery preparation (fire strike) (in kilometers)	Artillery ammunition requirement (in thousands of rounds)	Reduction of requirement owing to the employment of nuclear weapons	Total ammunition requirement (in thousands of rounds)	Amount of artillery allocated (guns mortars, MRLS)	Projectile expenditure per gun (rounds)	Duration of artillery preparation (fire strike) in minutes
Brown 11th Motorized Infantry Division and 3rd Tank Division, reinforced corps artillery regiments Defense hurriedly taken up, personnel under cover. Defense frontage - 30 km per division Losses -- 60 to 70 percent	20	$123+7 = 130$ counting losses $130 \times 0.4 = 52$	$2 \times 6 = 12$	$52 - 12 = 40$	825	$\frac{40000}{825} = 48$	15 (table S7.) $K_3 = 1$

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Nuclear warheads are taken into account only in the zones of commitment and to the depth of the tasks to be accomplished by the artillery. The remaining nuclear warheads are to be employed on the flanks and in the depth.

Expenditure of ammunition by caliber:

Caliber	Unit of measure	120-mm mortar	122-mm howitzer	130-mm gun	152-mm howitzer	152-mm gun-howitzer	BM-21 rocket launcher	BM-24 rocket launcher
Expenditure	Rounds	40	52	45	40	40	56	13
	Units of fire	0.5	0.6	0.6	0.7	0.7	0.5	0.2

Thus, 40 thousand rounds of artillery ammunition will be required for fire destruction of the enemy. If 825 guns, mortars, and multiple-round rocket launchers are allocated, the fire tasks can be fulfilled within 15 minutes. When the forward units of the 15th and 22nd tank divisions arrive at a line 2 to 3.5 km from the forward units of the enemy, /artillery/ is to be ready (from 0800 to 0825 hours 13 September) to conduct a 15-minute fire strike against centers of resistance, especially against the enemy antitank means and tanks in front of the line of commitment to battle and on the flanks which have not been destroyed by nuclear weapons.

The method of concentrated fire and fire against individual targets to the depth of the first-echelon battalions (three kilometers) /will be used/ to support the attack. The distance of the line of attack from the enemy's forward edge is 1,000 meters. The speed of the attack is 12 km per hour.

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Artillery close support of the troop offensive in the depth will be accomplished by massed and concentrated fire against surviving or revived centers of enemy resistance during the entire offensive.

With the objective of retaining fire superiority, enemy artillery and mortar batteries will be destroyed as they are detected.

The antitank reserve of the front (4th Antitank Artillery Brigade) will be deployed by 0500 hours 13 September on the OKEL, NEUBRUCHHAUSEN line (a march of 75 km; speed of 25 km per hour -- requiring a total of three hours). The 5th Antitank Artillery Brigade will concentrate in the area of WUNSTORF, HASTE, STEMMEN.

The reconnaissance subunits and observation posts of battalions and brigades allocated for the fire destruction of the enemy on the line of commitment to battle will be deployed by 0400 hours 13 September. The results of reconnaissance will be collated before 0700 hours. Before 0800 hours 13 September, fire tasks will be refined on the terrain.

As of 0600 hours 13 September, one squadron of a reconnaissance air regiment will constantly be in the air in the 10th Tank Army's zone of commitment to battle.

e) Advance and regrouping of artillery

The 14th Heavy Howitzer Brigade and the 11th Rocket Launcher Artillery Brigade of the 8th Artillery Division will be resubordinated to the 10th Tank Army in the occupied area: (excluding) NEUSTADT, MELLENDORF, HOPE.

By 0300 hours 13 September, the 11th Artillery Division (minus the 15th Heavy Howitzer Brigade and the 12th Rocket Launcher Artillery Brigade) will concentrate in the area of NIENBURG, (excluding) REHBURG, HAGEN, where it will be resubordinated to the commander of the 10th Tank Army.

Six hours are needed to maneuver the 11th Artillery Division (teardown -- one hour; the march: 3rd Gun Artillery Brigade -- 50 km, 8th Heavy Howitzer Brigade -- 50 km, 6th Gun Artillery Brigade -- 125 km -- two to five hours; deployment -- one hour).

Total: four to six hours.

Artillery of the 15th and 22nd tank divisions and army artillery of the 10th Tank Army will move out and deploy in front of the line of

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commitment to battle of the 10th Tank Army by 0600 hours 13 September. The march: artillery of the 15th Tank Division -- 100 km, artillery of the 22nd Tank Division -- 175 km, will require four to seven hours; deployment -- one hour. Total: five to eight hours.

The regrouping of artillery is to begin no later than 2130 hours 12 September and it will be ready to open fire at 0600 hours 13 September.

/See chart on page 44/

X
IV. Lesson director's concluding remarks

When assessing the results of the lesson, the following are to be noted:

1. During the commitment of the front's second echelon to battle, matters of the combat employment of rocket troops and artillery occupy a major place in the work of the commander and staff of the front.
2. Reliable nuclear and fire destruction of the enemy is one of the main prerequisites determining the success of committing the front's second echelon to battle and of developing the front operation at high rates of speed.
3. The bulk of the work of organizing and planning the combat actions of rocket troops and artillery when committing the front's second echelon to battle is entrusted to the chief and staff of front rocket troops and artillery.
4. In conformity with the concept of the front commander's decision, the estimate of the situation which has developed, and the status and capabilities of rocket troops and artillery, the chief and staff of the rocket troops and artillery will determine the tasks for the rocket troops and artillery, define their grouping more precisely, plan the nuclear and fire destruction of the enemy, organize reconnaissance and other support measures, assign the tasks, and organize the control of rocket troops and artillery when the front's second echelon is committed to battle.
5. The chief and staff of rocket troops and artillery are to participate in organizing the cooperation of the rocket troops and artillery with the other branch arms.

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6. In the present lesson, the most important aspects of the combat employment of rocket troops and artillery have been examined, the knowledge of which is essential to the combined-arms commander for the successful accomplishment of the tasks of nuclear and fire destruction of the enemy when committing the front's second echelon to battle.

7. The degree to which the lesson subject was learned and the established training objectives achieved will be shown.

An assessment of the work and preparation of each student will be given, and the existing deficiencies and ways of eliminating them will be pointed out.

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Estimated time for the advance and deployment of rocket troops and artillery when committing the 10th Tank Army to battle.

Large units and units	Siting area (area of operational deployment)	Length of march (km)	Time required		
			for the march	for de- ployment	Total
15th Sep Msl Bn of the 15th Tk Div	ALTENBRUCKEN, WIETZEN, BALGE.	100	4 hrs.	35 min.	4 hr. 35 min.
Artillery of the 15th Tk Div	WESELOH, VORWALDE, (excluding) HOHENMOOR.	100	4 hrs.	1 hr.	5 hrs.
22nd Sep Msl Bn of the 22nd Tk Div	LEMKE, PENNIGSEHL, LIEBENAU.	150	6 hrs.	35 min.	6 hr. 35 min.
Artillery of the 22nd Tk Div	KIRCHDORF, KUPPENDORF, reference marker 63, reference marker 33.	175	7 hrs.	1 hr.	8 hrs.
Army artillery of the 10th Tk Army	OHLSENHELEN, MORSEN, STEYERBERG.	80	3 hr. 12 min.	1 hr.	4 hr. 12 min.
8th Arty Div:					
14th Hvy HOW Bde, 11th Rkt Lchr Arty Bde	SCHOLEN, BRAKE, HOHENMOOR. (excluding) HAENDORF, GRAUE, CALLE.	50	2 hrs.	1 hr.	3 hrs.
		50	2 hrs.	1 hr.	3 hrs.
11th Arty Div:					
3rd Gun Arty Bde, 8th Hvy HOW Bde,	NIENBURG, WENDEN, WALDSIEDLUNG. GROSS VARLINGEN, LANDESBERGEN, (excluding) BOLSEHLE.	50	2 hrs.	1 hr.	3 hrs.
		50	2 hrs.	1 hr.	3 hrs.
6th Gun Arty Bde	LANGENDAMM, BOLSEHLE, BORSTEL.	125	5 hrs.	1 hr.	6 hrs.
Front AT reserve:					
4th AT Arty Bde,	OKEL, NEUBRUCHHAUSEN.	75	3 hrs.	30 min.	3 hr. 30 min.
5th AT Arty Bde	WUNSDORF, HASTE, STEMMEN, GUMMER.	50	2 hrs.	30 min.	2 hr. 30 min.

