## Heetin: No. 21

1. On 24th July, 1961, subject arrived at 1995 hours. Subject has purchased a silver digarette case desting £22 which he will give to VARRECOV, which he unpacked and displayed. It is to be inscribed "to dear serged Sergeovich" and not with VARRECOV's full rank etc., since their families are on very friendly terms and signed from (subject's true family name). After dissumment it was decided that engraving is to be done in WESCOV for security reasons. Subject agreed.

- 2. Publicat requires further supply of batteries which he was asked to bring back by HUURN, both PHOVE and WINTERION. By The two sets are not enough. By All right we will get them.
- 5. It After visiting the Earls Court Subbitton for a start while that morning, I then went on to the Estimacy where I may PAVIDV who told an elab he had heard from VORCHUN that I was first on the 14-4 V who fold an and was hedre transported for the machines I had provided to
- obtain. I told PAYIOV that I had already spoken both to Winne and Religible about both machines and that wifer was going to buy one in his can mass and then hand it over to the Soviete who would pay the bill. The bill will then be taken by so to PAROUS as an official invoice to justify the cost. The WINTA engine will be delivered this week on Saturday. As regards the other ARITA engine, however, I plan to send MERRY a telegram toward (25th) stating that since the firm absolutely refuses to cell the Soviets less than BOO machines on bloo, the British specialist who has been in frequent than BOO machines on bloo, the British specialist who has been in frequent than BOO machines on bloo, the British specialist who has been in frequent than both graph had I now request full take agreement to equently hand it over to me. And I now request full take in a should be transaction and request that the cost of the machine in a should be transaction and request that the cost of the machine in a should be transactive and repair who are apparently listed in MEXION as my potential contacts for close study, and further use. It would be most advisable for me to send with a telegram towardow, to justify my stay in the U.K. during the past week. What I need is the price so I can report it even though delivery my be later. It I will find out towardow.

  Then I can send the telegram a day later.
  - preficular) to save him adjusting the from every time as he had to do for the 500 pages he has just brought over, i.e. spending 10-15 seconds on each shot. Subject guarantees that he never takes photographs unless he has 100% certainty that he will not be seen or interrupted. Consequently, the shorter time he spends in a looked room the better so as not to arouse suspicion as to why he looks his door. Subject listed all his photographic problems. On the photography instructor has been scheduled to some here on technology and we will cover all your problems.
  - 6. Subject explains how he took photographs of secret intelligence (CRU) telephone directories of personnel working in the departments headed by, PLANDIN, who is the chief of 2nd Rapmavlemiye of the 4th Directorate, and EANDIN, who is the hand of the 3nd Rapmavlemiye (in the same Directorate): 21 I succeeded in photographing them while PLANDIN was away sick and I sat at his deak in which I found these directories.
  - 7. D: The internal extensions in each department of the 4 manbar system can be obtained then ringing from an outside telephone

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ty prefecting them with the profix K-Q instead of going through the main (CRU) embrage no. K-5 03000 for instance. K-Q is the enterntic profix which compote one to the internal embrage. This is an open or rather some which compote one to the internal embrage. This is an open or rather some which compote one to the internal embrage. This is an open or rather some closed system. The Company to the profit that the internal embrace (as in the internal embrace). chosed systems are consisted with the BAUWING district (of MC CON), these archives being leonted next to the WIALIN Hillitary Agademy for Gender efficers. ( It is decided to revert to this later). (Note: Complete explanation of phone systems given in 22nd meeting).

In looking through these directories to find his own name, subject comes across an entry giving his home telephone matter and mying he can be found through HIMV, Ameel Leanovich. Publicat goes on to explain that SHAOV was one of the senior officers in the 4th Directorate, having served proviously to that in Egypt as Resident in Port Baid. Other changes are scheduled to take place in the 4th Librectorate soon as follows: On SUDDR's depirture, SILEW will be permoted Head of the Paperviewije to replace Colonel WILH - the former Resident in LIMI and the present Read of the Reprovierate, who is in turn being promoted to replace SERIN as Deputy Head of the Idrectomate on SERING departure, although the post actually carries a Constal's rank, whereas Digit is only a Colonele return to this in detail later.

9. St As regards the Academy of Epiceness directory, this impludes the names of the many specialists mobilised for source work on various defence projects, rockets, explosives, engines etc. Those peoples' manuscript outling to exclude from the "irectory a which is restricted could not suddenly be excluded from the "irectory a which is restricted assert assert a manual born asserted the manuscript of the other and such secret anymy, as it would have arouned the suspicion of the other scientists in the Academy, most of whom are not party morbers but members of the old nobility or intellectual femilies. If these Academicians' mens would have been suddenly excluded the others would have guessed at most that their ballengues were now wasteing for the Minister of Defence or the Minister or the Minister

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To now last time we spoke of the S.P.S. P.S. R.S receiveds, details which I have already listed. I have no further information on the first which is a second television weapon by we but would like to stress that each is a completely different meapon by wirtue of their different ranges, community and utilisation. h we already been listed in connection with those currented for subsering and land forces. I obtained this from PARTERITED who had just setumed from a course at the Senior Artillery officers military Academy in LYMINGAD, where he had been studying these meapons at a VAR.

11. As regards the (.5, I actually saw this huge rooket with my own eyes and even touched it but it was instantly covered up by a large carries and toose attending the course were not allowed to study it - nor were they allowed to study the Ref or the Re9 rockets which are all prototypes being tested in the research and development of various sizes and especities for the production of a greater jet propulsion force ["reaktiving] sily" le

s regards these developments, PARRENT RED as a wise and experienced rillary officer expended that it is not possible to increase by mechanical mouns the jet propulation force even further as the motal sould by mechanical mounts the jet propulation there even rurner as we metal sould not support this increase when the fuel expenditure (consumption) per second remains unch need, since it would result in the metal burning out and this, in turn, if the fuel injector [forsum] burns out, would result in an impoliate fuel lenk which would inevitably lead to either the two things. Either an outbroak of fire, or the modet will comes travelling after the first 150-000 notres. It would be impossible to makeeve since the essential scientific mutual balance will have been disturbed.

1 I'd like to mention something about the Directory listing mass on '78 4, commonly known as "troichathe", and explain that this Exchange serves the Hindster himself, as well as all the Hirocognics, departments and Institutes ording under his jurisdiction a loss in General departments and Institutes ording under his jurisdiction a loss in General departments and Institutes ording under his jurisdiction a loss in General Staff of the Hindstry of Defence. Variative's on Direction to does not form part of (some under) the General Staff of the Ministry of Person, but is part of the structure of the Ground, forces which is an

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with the Ministry of Defence and its General Staff via the E EMLIH 1 se "Krealevia", which is allocated to all military "rukovodyashchiy sostav" ( $\theta_0 \theta_0$ ), for important conversations.

20. S: The reason why the Directory, in listing S'R'W for instance, does not give his initials - as is the rule for the majority listed in the Directory - is that S'R'W being quite a common name, it was thought this would swoid people guessing that the present head of GRU is identical with BERHYA's old deputy.

21. Subject also requests that he be allowed to buy the latest model of the American ZUNITH wireless receiver, which having eight wave-lengths bands, Subject could also use as an alternative set to receive messages. He intends installing it in his "dacha" as he considers it would be simpler if he could also listen to music on it. He has no radio at home at all except the transistor we gave him. Besides he wants to improve his English by listening to the RFC. After much discussion regarding the security factors the request was held in abeyance for further consideration.

22. G: Let us work now on our agenda questions. First of all we part to clarify some roints on the Berlin question. You said that assuming the roads were blocked - the Allies press on notwithstanding and send through transport planes to Berlin - these planes will be shot at. Who told you this? S: Firstly, this was told to me by VARETTOV. Secondly, it was confirmed by Volodya FEDOROV when he was passing through with his battalion. Thirdly, by Turly KHOROSHILOV, who is the Chief of Staff of Artillery in the Tank Army, DESDEN under FU IF and who was previously a brigade commander of Artillery, b't conventional Artillery, unlike FEDOROV (who is Rocket Artillery).

Si MORCOBILITY was in MYSCOW on leave but was recalled back a sectnight earlier than the date originally fixed for his return. Note withstanding, he found time to ring me and arrange to meet. We went to the Dinamo Restaurant where, amongst other things, he told me (as I have already reported to you) that "the Germans will make a real hanh out of us!" So I asked him "Put what will have en " and he replied "this is what we are being told, and this is what we feel ourselves (will happen) and what I, as a Chief of Staff can tell you (Will happen)..." and then he (PHORCOMITON) went on to confirm much of what I had alrea y heard... (as follows!).

St As soon as the agreement (with GDR) is signed, a state of left ('trevoga') will be declared immediately, putting all the GDR forces on the alert for the take over of control in all check-roints - the defence and control of which in future will be their entire responsibility. Meanwhile, the Soviet troops will be kept in readiness 'ne isgotove'; the plan being that they should of come out at once to occupy these roads, since this would then mean provocation to be followed by bloodshels. That will happen is that the Sest will be told: "Americans, British and French, please, you are still free to go to HEPLIP, but you must now deal with the GDR (for passes)....or if you wish to fly along the Corridor at the agreed height and on the agreed of orse, please do so, but you must a proach the GDPs who new control all flights and grant the necessary permission accordingly for a certain time-table and number of flights...similarly for railways....

of.) S: If homever the Americans, British and French refuse to deal with the GDRs and try to force their way through, then the Germans will start fixing. And since the GDR forces are evidently not strong enough, then the Soviet tanks will come out and a tack the forces with which the (the West) tried to ram their way through to BERLIES.

26. G: There is a small non-sequitur here: although one can block

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off a road or railway, one cannot do so in the air. Consequently, this means that the GDR air force will have to shoot from the transport planes of the mestern likes - that is fire the first shot. If the west do not apply for permission or give notice of intention to fly to DERLIN since they do not wish to deal with the GDR and just send off a plane (without prior notification) then the Germans will fire at this plane (from the ground) or order their own planes into the air (to a track it)... although their (GDR) planes are in fact Soviet planes... G1 Yes, but the first shot will be fired by them? S1 Yes, (the first shot will be) theirs!

-ho will fire first? 0: But wist happens on the roads? Let us my that the not be the other my round? He wait a minute! scheduled plane didn't fly through since the Germans started firing at it. So then you go along the road - not in tanks or armoured cars - just in ordinary cars or lorries carrying people and food-supplies. You are stopped, but since you do not wish to have any dealings (discussions) with the HMs, you press on - so they start firing first at you, i.e. "if they (the West) do not recognise our rights - then fire ... arrest ... destroy them!" even though the west had not yet sent in their tanks... The West won't be the first to fire, they won't start firing till the others fire first, I fully understand that. But things will happen as I have just told you - this is absolutely certain and cast-iron. I heard this from WARRITEOV himself -"if they (the rest) refuse to talk with the ODR and try to press on to PENLIN regardless, then they will be kieled in the teeth!" I wouch for this with my life that I am telling the truth! And if the Western Command then decides to send in their tanks so as to clear the way through, then they will also send in their (GIR) own tanks!

 $\Omega_{2}$  . Who wis the source of the statement that if KHOREHCHEV realises 28. there will be transmissing solid opposition from the west, then he will stop and not sign the treaty? Is this an opinion held by you or held by others or is it a fact based on policy that someone may have heard at my, a meeting of the Supreme Soviet or some other much meeting? S: This is an opinion held by us all and it was expressed to me firstly by General PYMOVEYY as well as by many other officers, PRIMITED among them. Shat lidem no bolahol risk |... we are going to show absolute firmeess because, so they say, history will not forgive the leaders of the coviet Government and Communist Party, if once again they postpone matters and once again do not sign the agreement (with GPR)..." So I said " but do you mean we are going in on a risk - how so, Sergey Sergesvich?" and VAGESTOWN replied: "Heannee Lif they (the est) refuse to talk to the Germans, and the German (sentry) will bur the way and may "give me your propusk" and then the americans will get excited and so the fighting will begin..." I mee local fighting... (deep sigh)... and many may "what nonsones - what for", and all of them confirmed this to me, FERRY also... In 10:00% this is a well known fact, the people in General taff Hij know all this and visualise how it is all gring to happen... after all we are constantly breathing that atmosphere ... I And when I name to you my various sources, I only give the names of people who are known to you and who are sotually concerned (take an active part) in all this. Comuse if I hear something from some IVANOV or PTOV there is no point in telling you about it and even I myself forget about it by next day since these people mean nothing to you or me.

will be instantly declared in the GPR...and for what purpose? For the purpose of countering any, as they (the Soviets) say, 'childish' gesture on the part of the Sestern Military communders, the Sestern representatives in Germany as well as on the part of the For Semmans themselves. And since their (GPR) forces are not sufficiently strong, consequently they are going to be supported by the Soviet forces in Germany who are being put on battle alert, in position of battle-readiness No.1...And this battle alert will be

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(Necouse they are envisaging the following) and wint if the entricine should suddenly send in several thousand tanks so as to unite the two dermands - then battle will commence...what sort of battle? A the two dermands - then battle will commence...what sort of battle? A the two dermands - then battle will commence...what sort of battle? To the extent local battle!...and to what depth of front will it extend? To the extent local battle!...and these troops will be located i.e. there will be of the territory on which these troops will be no much attack...because (estern) troops are concentrated... There will be no much attack...because (they (the Soviets) want everything to be decided in this particular Sector: they (the Soviets) want everything to be decided in this particular Sector: the area wherein the highways are and the railroads and in the air...i.e. the area wherein the highways are and the railroads and in the air...i.e. in the Soviets) say, 'disrespect' towards the Office...where (the West will say to the soviets) say, 'disrespect' towards the Office...where (the West will say to the skipmish will begin in this Sector...

", And if the nest send out their tanks, then the Soviets will also send out their tanks in supports. and so they will begin firing at each other...For tint is how the whole thing is envisaged and planned and there is nothing clumy in thin, everything is absolutely clear suf- ... to once again I would like to repeat to you what my came ours have beard and how i understood the position... (this is the plan envisaged): They will only show force and bar the way (to the deet) only in the event that the heat will refuse to talk to them (the GDEs) ... and not that, may for instance that as soon as the Germans will tabe up frontier control positions and the sent sees then, the seat will start fixing at them at once.... Reither (is it envisaged) that as soon as the evists will see the estern forces, they will start firing at them. .. But they will may "and on what According to the agreement group's are you travelling on this territory? you should have provided on this from the horozament of the Gift. If you have permission from the Government of the TR to make a flight at such and such a time, then please go sheadi...".

Such and such a time, when plotted go and the color of the post of the color of the

It is perfectly clear to us and we understand perfectly well left the leviet (loverment has no right to sign an agreement with the dermine, but they are trying to support this action with armed strengthese and (it is planned that) should the "mericans, hritish, French and the FER dermine refuse to talk and negotiate with the CHR concerning regulations for future use of communications with formill, then they will be told: "No, atop, we must defend our rights according to the agreements... the Servict authorities have gone and we are therefore a coverign power in this extractiony..." But the Servict forces will not leave, they will just retreat territory..." But the Servict forces will not leave, they will just retreat sense distance marry...and then, as the Sermin (GER) forces are weak a they sense distance marry...and then, as the Sermin (GER) forces are weak a they haven't got anything much as a metter of fact I could tell you about it haven't got anything much as a metter of fact I could tell you about it into this Zector, into this Zector, into this Zector, they do not want they've got into this Zector, over the German territory as a woll. That Is how the coviets want it for the moment, they do not want to siden the area of hostilities, they do not want to turn it into number world war... This is the risk Vaccurior was talking about.

J. I could have easily proved all this to you if I could have proved all this to you if I could have proved all such remarks as and when made to me had I been supplied with a pocket recorder. In this should be one of excellent quality, as apparently the Cli made is dreadful and makes plantly matthing makes. and is commequently not being used by oviet Intelligence.

5: This is what the projects are property for and that is my

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the Sowiet tanks and artillery will be thrown in - in great strength -

all manoweres and training is being done on a joint basis with all the MAYSAN Part countries, that is why there is urgent demand for equipment, for tanks....and especially the tanks are being given particular emphasis. The 'estern Commands should never suffer from the maive illusion that the Soviet Military and Government Organs have stopped developing tank forces. So have already spoken in april-May that what is taking place in the MAYSAN is a re-allocation and partial reduction in it forces and Mayy, i.e. disbandment of unrecessary elements in hir and Mayal forces...and this is done, May - not because the ovist Government and High Command on not have a high regard for the Mayy or 'in Forces as sufficient at all, they are doing this because they consider that this disbandment can be omponented by the organizing of a smaller but more specialised force with the introduction of new weapone, i.e. reserves of various calibors, diametres, and ranges...

36. I will try to find out further details on this question...the exact vital moment... but FIRM has already told on that he is taking his family out of Commany in September and all PROPOR's off commany are going to do the same.

It would be a very good thing if... actually I would like to neet acception the FIX Undater IMAND - although of source I realise to neet acception to earlier in much too small a minion for a can in the position.... to advice him to run appoint schools organised for teaching diversionary trotice so as to create absolute panic within the garriance compiled by joviet forces i.e. by starting fires, blowing up reads, convenientions, ato.... It would be like a mouse-trap them, and the evict forces will then start running round in circles and by the time they will start fixing it will then be too late... And if they are too late, with God's help the advantage will be comes... Because this is what they (the criets) are frightened of. And why are they so frightened? Pecause they know full well what the atmosphere is, how the Germans look upon them, how the Germans hate them... and they know full well that as soon as any skirmining begins, the Germans will start throwing atmosphere at them, beating them with attacks or game - if they have them...

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38. I and just implies that will happen them. PROYOU has all material in his brigade - Proping has two complete firing units: one SEXULTY INS ALL already fitted with rookets ready to fire and the others are kept in the The Drignds astually has four firing units in all allocated for its initial mission although in fact there should be teclive in all opered out in depth, so that it is form a that to a depth of several hundred kilometres all three restate are going to proporte imigade only... To that if his depote are est on fire, several hundreds of his people of oppod up, just impire the famile Everybody rurning in all directions there will be no longer a unified brigade, no organised firing... And once they are out in the field they will start firing at once in all directions and at the OTE Germans, and at the CTG Communs, and at the Allied forces - all at once on a circular front - so they say! Once they are in combat deployment that is had for our side.... So it emential not to allow them to deploy in combat formation. Decrues, after all, they are allow them to deploy in combat formation. sitting like in a mome-trap....they are not sitting out in an open field now... because that would indeed be had for the west if they were althing in recerve positions so that it would then be very simple and quick to change to corbat deployment....but they are doing nothing of the kindl are sitting in a house - in windowful necommodation with telephones, boths, bars and jass bands even ... This is what they are affaid of " this is listed as the prime danger. And sky should we not make use of this? if we (the rest) do not, history also will never forgive as for missing this opportunitylif we(the fest) may: all right, let \$5 do it according to the rule, whit for them to take up order positions and them start fixing!

39. Si Simultaneously organise diversionary groups so as to destroy as much as possible as quickly as possible...and two it would take the

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firigade several digs to re-organice itself, and that only after they have received new supplies of firing-units from the record flear area, because everything in the front line would have been burned out....everything all equipment and material.... I do not consider that would be too difficult (for the West) to achieve! Decruse if none hold and decisive action is taken here, an awful lot of destruction can be achieved!

You remeber you sentioned Another item from clarification. 40 Will existence of anti-missile missiles. Have you heard whether in this connection there exists some programm under MONALEMEN's direction i.e. Institutes, factories, training courses consentrating on a nti-rocket defense with rockets... (: I have take a great interest in this syself and I know that what I was told is correct and that I have understood the situation correctly as follows - No device actually exists that is in fact a realistic, completed, we make device against a rocket attack. A sorter and considerable amount of week homever in boing done on these lines. . but this work which is coursed out in the Scientific-Tenourch Institutes, the RIIS, not those under the juridiction of HOSFALFERD or WANTERION, but those These Institutes are controlled by urder the Ministry of Defence itself. Special Technical Engineering Directorates in the Ministry of Defence or in GAU....Ar awful lot of brain-enhanting work has been done on this problem, but still no stable device that exuld be put into use as an antirocket has been worked out as yet. Some of source h ve been trested. can absolutely wouch for that. 'nd since the "notet is levice "to.1, this would be Device No.2 - an anti-rocket, but no such device imp been perfected yet, although tremandous work and resourch is being done on tils. siderable some of m new have been allocated, quantities of scientific experts mobilized for this purpose in order to calculate the exact trajectory so a s to most the encenting rocket with an explosion that small destroy it.

Ge But could they educe for inctance, the V-75 or other EURS explote for this purpose and if so are any attempts already being made on those lines? G: Tes, of course, they could adjust it, but so far this has not been worked out or approved...of course, they could since they already have rockets for such a height, a recket that can be perfectly controlled by moses. by not explode it on the trajectory of the eneming rocket. But the whole excelerity of the matter lies in the emet colonistion of the amon moment of our fixing of our rootet and to complete electronically all details determining height at which the other missile is travelling in order to be able to hit it. Even if they know the erant memous the emony missile is fired they haven't got the means for working out the trajectory. oun't really adopt the method of firing against all possible trajectories for one given missile. It's too expensive. That is a question which

is being studied very scripmly.

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To they know anything about such tests at RAPO TIN Y'P or in 2 No. mooned has told me anything about this. You see, FFATT IN ASAN APUTIN YEP and mindler ranges in the OFFENA Military District - I am pure there must be other ranger, we just invent discovered yet, they are so secret - any may all those places are used for testing equipment which is prooficelly ready for issue to troops, or else emignest already in use which is boing perfected. It is also used as a testing ground by RAPU TIN YAT is not composted in this matter you are asking Institutes. about.

G: Con you tell us whother there is a programm for subleballistic missiles? To they expect to have them within a year, two years? I can tell you that it will not be sooner than from one to three years. large some are being spent. The Roviet But they are working hard on it. doctrine in general assume that for one; now weapon a counter-exagon is to be found, once they build a tank they immediately errors an anti-tank weapon; having erested rockets they are now working on anti-crocket vergons. They also know that the energy is working on the same lines. And the Coviets assume that in view of the energ's high-level of electronic-empating techniques they are about. But the Intelligence people can't find out the exact degree.

C: Was Sergey Sergeyevich said anything to you about this?

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All he has mid was that we (the Soviets) are warking on it. He has not said anything definite. Gargey Sorgeyevich is warrying himself edok on account of the lack of trained personnel and the low level of computing techniques. I'll ask him about this and you can lieten to his reply-

45. G: Assuming that the ARM system exists, would it be in the hands of FVD A.A. defence or would it have an independent them not the PVD would have it primarily. Their troops are tained for this. There is no point in giving it to VARTHOUT. It has to be mean the frontiers. Definitely it would be under the FVD.

- 6. On what other recket, besides the V-75 was shown at the my Pay Parade? Two were shown. Dr. was the second one also a MUNNY Gr. Yea, a MUNN. Br. No, Theren't heard anything. Anyway I was here at the time. When they told so shout the Parade they did not my a mything about a new modes. Seriaps it is another type of recket, not a MUNN. Till cheek. Gr. a you attended lectures at the cademy on the V-75, does this mean to this recket will be issued to troops for their own defence? Br. Yea. When you'll get the sketches you will see that it is used for defence of troops. This is also mentioned in the 1959 marmi I gave you, but the exact type of recket is not remtioned. The following troops are covered: large 2nd scheion troops expectations, Army front Hy, Troops preparing for attack. Other troops, if means are available. The same system which was applied during Sorld War II.
- 47. In the case of improved types of the same reskets, would the PVD be the first to get them: Yes, of course. They have always the first priority. Harriel of rtillery, MALANUY, Communior of YVO ground forces, his people are equipped for the defence of troops he has rifled A.A. wappen, he has some already, and he will get the V-75 as and when it is prokeded. He probably has some already, I feel sure he has-
- 48. Or You said you were told at the lectures that you can have the reskets operate at 3,000 sutres and up to 2) kilmentres. Sees this seem you can't operate at lower levels? Or fou use other calibres for lower levels. The reskets developed velocity must be employed at high altitudes. At lower levels flighters or A.A. are used. I've already told you all about it.
- 49. It The other thing I've given you is the rocket launched from an aircraft. There are 4 rockets carried by the plane.
- mage of the rocket is 40 km, the guidance is 10 to 30 km, which means that it can fly another 30 km after the 7 seconds, how is it guided then since it has been out off from ground control? So let me refer to the anterials (% is shown his notes). Onich range are you referring to, horizontal or vertical? The second-stage assemblies of the rocket give you 40 km, the guiding onts after 20 km, as it is excellened that after this height it will continue along the fixed trajectory, and it can be exploded by a special explorate device may at 25 km so that it flies 5 km without any guidance, it will fly for those extra 5 km if 29 is set; or 10 km if 30 is set along the direction in which it had been guided.
  - 51. In this way by using the possibility of the flight of rocket V+75 for 40 km, the troops using it for firing say at a height of 25 km, accelerate it to the limit of control for 20km, calculating that the control up to 20 km, will give absolutely accurate flight in the same direction for the reminder of 5 km, with the help of rudders, the correcting assemblies etc. will core into action, it can correct at 29 and 30 km. That is why it is considered that the important thing with regard to this rocket is to keep it under control for those 20 km.
- deloging 52. G: It is very inspectant to know what happens when it explodes.  $\forall$  is written you in accounte detail about this. The only thing I have  $\forall$  forgotten to tell you in the depth of the growing (of the finguents). These

grooves onn be smiller and deeper, they don't all have the same depths. It is rather like jeweller's wark. here the grooves are smaller it will and the same asserted a manage of traductors the same asserted to the same of mentioned is noticeed with the help of this cutting or growing, as well as the master of splinters required. I gave you full details, the only thing I didn't speak about was the relationship between the depth of the ening I man't speak about was the relationship between the cepth of the growing and the fragmentation. I reject the type of growing on the jacket, the number of fragments, whithe method of "refining" [refining the whole which breaks up into fragments, are written you a detailed report about this, about 36% fragments or as the notes stated. (Cabject speaks aimiliarity to a handsuremedal. The according is done in sinh a explains similarity to a hand-grounds). The growing is done in similarity as to obtain a come of fragments in the predetermined directions. The de th of the groowing is also one of the controlling elements.

53. If Here is another detail, as you are so interceted. It this "refining" of the sections which gives you the imposite, they have the make all the formula and the sections of the sections. try to miles all the fragments angular and to cut out matage. is to mke the maximum number of fragments effective. hay have been account in this. They should disperse by predesignation in a core toward the approaching target. Expersal engle is 2 for fragments, the bursting angle of the whole is 10. (This is all written in notes). The action of the fragments is guided, at a distance of 33 metres they can pierce steel arear. The distance is calculated on the guided section core. It is always directed straight shead. (whiles a down stration during the conversation). St ED, and they

G: Has the Y-75 got an atomic restricted! B: Ho, and the don't consider it mecessary for it to have one much too expensive entertainment just for one strong to

55. (h: Have you heard anything about 80-057 h: It exists, but I do not know any tootuloul details. It is older them V-75, but it has never been developed. It is one of the first. It appeared to be made any too the first of th ful and they may go back to it fint you know they have so many variations.

you man remets, the answer is IV. They believe that the energy will not risk expensive new aircraft on a plate to the opposition (Coviets) by flying los and expending it to ground fire.

G: Are they considering developing more powerful rookets' Cay or Are they considering developing more powerful that at the engage the U.B. B-7: planes? At Roy hey omedier that at the present stage they've got sufficient, they have the V-75, they have present stage they've got sufficient, they have the V-75, they have present stage they've got sufficient, they have the V-75, they have present stage they've got surrantent, they have the very, they have aircraft with a ceiling of 3) km, these aircraft can carry rockets which aircraft add another 400 km. Of course it would be mice to develop and have then, but you can't do everything at once.

Proper.

 $\{f\cdot f_{i}\}_{i=1}^{n}$ 

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50. On they intend to instal the V-75 or similar nide on mysil western to Yes. This important the submiring for you. It has some principle. I'll find out about the submiring for you. just not been one of the subjects I have dealt with at lectures, or any where else. I do not know where it is mounted.

Of Did they give the 4-75 to the Satellites because they have bething bigger and better themselves? (Is No. 73m reason thy they have possiblition the 1-75 is because at the cost of the decided it is time that had their own trained personnel and knew her to use thin weapon. It does not man that the Coviets have anything better. All that is importing that the this recket is issued to the Catallitan. All that is importing is that this recket is issued to the Catallitan. ocuntries. But they do train the Batellites in the use of them Anger they don't give them all the rockets. The more powerful and long sample over they heap for themselves, saying that they will be fired from towist territory by deviate recession. territory by Heriet Troops. •••/60

60. G: Have you heard anything about there being tiny hand operated ronkets which sould be used as A.A. by a soldier? H: The A.A. have certainly not got anything like this. I am sortain of this. Perhaps they exist as new anti-tank weapons and haven't been insued to the troops yet. That I'll have to check on. There are a number of prototype seapons which have not been issued to the troops. I man median gume, suromatic rifles.

G1)

G1. It has been noticed that around LEFLICEAD they are building very many A.A. guided mindle (GM) defences. But they appear to be a new type of defence not like the V-75 installation. Could you tell us anything about this? B: I think that your information that there are other types of rockets there is incorrect. The building is all done for the V-75 but also includes shelters, underground storage arous and platforms. LANDOWAD is not the only city affected. Such A.A. defences will be also built near 1980%, and other industrial control, political centres, etc. It is all done for the V-75. Of course, it is possible that it will later be used for other receives. I also don't that arms.

V75

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charging

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that it will later be used for other rechets. I also don't that anyone could have seen either the V975 or any other reckets. The ever gave you the information made a mistake, probably during the fact that he is not a rocket expert.

62. G: Could you get us some rocket designs? S: Yes, of source. The instruction manuals had blue-prints attached. I had unded to copy them as I told you in the Spring, but I didn't have the time to do it. I also thought that if I gave you all the figures you would be able to do a sketch. I'll keep tole in mind for the future. All you need to do it to blo- up the shape of the rocket to actual size. G: Of course all projections of the rocket such as stabilizers are of interest. S: I will do this. There are sketches folded in all rocket material. Stabie—

63. It shen you gave us those figures for fuel pressure so many tone at a temperature of  $50^\circ$ , and for 27 tone a temperature of  $40^\circ$ , did you mean this to be minus  $40^\circ$ ? It will check (looks at his notes). Yes, of course, it should be minus. How can such a huge thrust difference occurs at only a  $10^\circ$  change.

64. G: To you know what A.M.R. 75 means? This refers to the inder equipment. H: I think it is part of the launching assembly [pushownya ustanovka] but here it is written rocket "siming station" [ stantalya myedeniya] (radur station). In this case A.M.R. 75, is the siming station for rocket V=75. This is competed with the WT control. Let us tell you, it was joily lucky for us that I was not sent to the WYIDEFAD Staff courses. They would only have given me distances, could possibilities, and taction! considerations in general. They would have taught us nothing at all about the rocket itself. Those are all engineering details. All this is being studied at the France cadery - healty No.5, radio-electronics.

65. G: Pid they compare the V-75 to the "estern A.A. guided misniles? S: No. They only had general review lectures, Fight at the
beginning, on the merican, French, Inglish and General rockets. I told
you that for the General once they talked about the "V". They gave us
very little information on Sestern rockets. In I can judge by the asmigranests given to the Residentums that we have little information.

of aircraft. Let me tell you how I understand his statements as a General

Q34

Staff officer. We has in mind atomic and hydrogen bodies, new types of aircraft, rockets which have aircraft been approved, this he considers sufficient to brag about. But it is all very thinly spread. Fut massed and directed against one target it could of course be affective. But he has no capability of hitting many targets. To he is yelling for peace to gain time.

Gr Has he got bacteriological weapons? He Yes, he has Can we have any details about this? That types? Nothods of employment? Storage depote? It There is a manual dealing with chemical warfare, it may be dated 1959, but I will get it for you. I believe this is the intest. Gr Save you heard whether it is the Soviet intention to use these weapons? St I've already told you and an reporting, there is a special Directorate dealing with this matter; there are chemical troops, there are secret fixing ranges, where chemical and bacteriological markers are being tested. They intend to use these jointly with other types of weapons in order to increase the effects of the attack. Gr Do they intend to use it is response to the energy's using it, or do they intend to be the first to do so? Sr They have two actions planned; in the case of a surprise attack everything will be thrown in, otherwise should the energy during the course of a war use chemical and becterological means they will reply. If on the other hard they adopt the destrict of being the first ones to disrupt everything, to prevent receiving a decisive hit from the energy in response, they will throw in chemical and becteriological means. A lot is being grepared. You can't disrugard this in your planning.

68. 61 During the last world war the Germans and the other combittan's did not use potent gas. 21 the poviet troops were equipped with chemical shells. I had then ayaself. They were not supplied to the fixing positions, but I knew that my regiment had seen area supplies. In the same way that all artillery had been ordered to destroy the energy tanks, in the same way the chemical troops would have had orders to go all cut. I held one of these sheedeal shells in my hands, but there were none at the front, they were at the 'may group held against energy-new. How, you have asked by what manns the hasteriological and chemical warpens are going to be used. Of course, the most important part is to be played by the air force. Special tanks, which will be fitted to sirrorift, are in existence. The discountation will be by spraying certain determined areas. They also have chemical shells which can be fitted to rockets to the warsheld.

VAREGIET What these. There are special containers for fitting to the warshead, filled with chemical or insteriological solutions. All the "rocket carriors" (mattell rates) will be chemical-bacteriological carriors. All this has already been studied; there is a Directorate at EAC headed by a Colorel-General dealing with these matters (WALFIELD).

G: Have you heard that the sputrake can be used not only for callitary purposes but also can be used as an atomic weapon? B: I have not heard this. But I have not heard this is very difficult to adopt the sputrake for correcting the siming of atomic weapons, due to the comic speed at which the sputrake travels. I know that they are working on this. CAPG'RIN has made his flight on which he took photographs of certain sectors [steechki], although they said there were no cameras installed. There was a complex of various types and sizes of cameras, which he switched on automatically. NRNUSTOWN and the press lied when they said at the time we Laurenbed the man that nothing was photographed and no information collected. G: who told you this B: number of people told no that on this iputrak, and in foot on every sputrake, they try to instal all sorts of optical instruments, photographic instruments, for taking photographs. Girchits was given all equipment. By the way, I must tell you that General staff we livid when they learnt that the Americans had Laurenbed a Sputrake travelling over Soviet territory. They said that this was a Syg-Sputrake.

areas in the mountains, where tests are being propored, but they have no concrete information that bombs have not mally been tested in these places.

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78. G: We great numbers of these atomic game in operational use? G: Tes. G: Have they got them in GET? S: I think so. I don't know for certain, but there are a great number of them being produced. S: Are all your troops using them? S: Ies, I think so. G: Did particly tell you whether there are such game there? S: I didn't ask him, you hadn't told me you want to know (joing). G: Under whose sommand do they come? B: Under VARISTICAL. They are the Under whose sommand do they come? B: Under VARISTICAL. They are the Under whose sommand do they come? B: Under VARISTICAL. They are the Unite reserve (ROA) for ground formers. For GER they are in FERMAN. VARISTICAL them there game and has told me be believed in those, they are good known these game and has told me be believed in those, they are good those these game and has been given the J-ton atomic game. I den't think guns. Varistically have been tosted with ligh implicative shells, protending they were atomic ones. For have they wood then for exchange.

19. atomic shells unless it is tested? : "all, they have made all 79. the colculations. (Subject repeats versionally a nurses of three that No atomic shells have been fired. He had asked instructors and CHERRETTO (he thinks), who has worked in All). It she tank was to tost the gun and its reliability using High repleases shalls. They have had other tratyl equivalent teste, but not by using game and not They have dropped there borbs from a trongift, very accurately, as the trajectory was conscied from the pround, after release. told you about this. I will check on this: you have confused sw, al though I am very sure that the game were not too tod with a toute shall a but the dumy shells were calculated to the last milimotre to represent the atomic ones. We were shown films donling with noviet atom tests. All sorts of structures, animals, vehicles oto, were placed at various distances to test destructive effects. Pressures developed during an atomic explosion were resorded by a steel assembly saids in the form of a steel shaft, a steel pad and a membrane which recents by grooves on hose grooves register the pressure, my a hundred thousand the metal. rilos.

80. 6: That is the ratio of High Seplected to minious markeds for "Red", "Red" and "Red!? 6: I can't give you the exact ratio, but this is the principle they work one. Everything has first get to be presented for the conventional, Righ Explosive markeds. If a crisis arises and they decide to bury Explicition, then the lot will be transferred to atomic variation. If the war is a chiwalrous one, not an a toule or hydrogen one, then the reckets will carry High Explosive markeds, trotyl cardol, etc. I don't know the meant figures, but I think that the ratio is for may my reckets, you will have 10 atomic variance for 90 ratio is for may my reckets, you will have 10 atomic variances are marked though no specific figures were given. The atomic warhends are marked though no specific figures were given. The atomic warhends are marked features and stored semantally. Of course, what on happen is that they decide to fire atomic reckets in a certain theatre of rare and then they will supply only atomic markends, for the lex reckets. However, thin is only conjecture; this must be questioned.

81. G: the is in charge of the distribution of replear methods?
At what level? Or call controls their production, and stores them. The

brought this matter to your attention now is that it is possible I will be leaving the Committee in a few months time. That is why it is important for me to have firm forwign acquaintenmentipe escablished with whom I could continue working, with the knowledge of my superiors; and not in the line of my work for the Committee, receptions to which I would go as a personni friend.

B: "that can impose to se? They might propers to send up to Smaland - please God! Or Stroke might give the order "return him to the "Apparatus", to Order. "Se can either make se the Deputy Would also be a good thing, please God. I would then remain in MYSODW, and could go on seeing old acquainteness from time to time. It would still not rouse exament; after all, I must be polite, great someone go away, you could introduce someone else to me. It was not by on most that I, for this reason, proposed when to you. I say this as an example. My proposals may be the right cost or

J: Hould you be in uniform if you returned to GRU, and bould you then meet foreign military attaches? U: No. I will be in civilian dress. Sven in PCCOR, and even in the 'apparatus', I will serve in GRU, but will wak about (in the same dress) as I am doing now. Phould there be a war then I will be back in uniform. It I would have to consult my superiors about this. They might reply: This would be difficult. By should we try to throw dust in their eyes. They have already sciencefieded you, and let you into Preland twice already as a man who has had his front of them. G: Ico, that is true.

might be useful if I came had a solid introductions. I do not need to engage in agent activities; I can study him for a year. I leave would you meet such individuals? In a sentament? It I will tell you have no are instructed in this, and what is required of us. "all, have become acquainted with a san at a reception; I've not him once or trace. I have already reported that I am acquainted with him. He appears to be a ayenthetic individual to when it is worth paying attention. This is already the art of the intelligence officer, whether it is worth cultivating him for three months, six or a year. After a few meetings be (the intelligence officer) suddenly receives an invitation from the contact to a celebration, my the birthdy of contact's wife. They are interested in the can, so he goes. Or I can ask for official funds to entertain the can in a restaurant, in order to get to know him better, i.e. I can keep closer contact on my com initiative with a can on when I am known to be working.

98. It on seeing a group of 'excions or British in a resthurant, my diplomats, you could surape adquaintance with them? S: It would not be well looked upon if I had never not them before, We are not pormitted to associate with people if we are not acquainted with them, i.e. no pick upo with foreigners.

99. By if after propor introduction, I were to any that I trisk it would be worth while to spend saws time on a foreigner, who might be of interest and use, I would be told to go aband, as this is my social intintive. I need firm acquaintanesships of this sort on which I can be notively working in view of my possible change of occupation this suturn, after my holidays. Officers working in our do invite diplomats to restaurants, as for instance, the lat femretary of the Majorn minesy was invited, and others. Sillow, for instance,

182. Of Let us stor on the 2 n to-day, we will continue tomorrow. St So it was a good idea to have photographed this? O: Yes, of course.

185. G: In there a LANAGEV there in Cadres? S: Indeed he is Colonel LANAGEV.

184. St IFFARD is to go to the lat folder, he has been provoted Colonel, while IALYTV is probably there too.

185. Gt Do you remember A#W? St De, I can't.

186. C: Do you have a TYCHISHY'V there, he has gold teeth, he is a Colonel. S: Yes, I know his and incidentally how about my dentist? G: To-day an appointment is being booked for you.

Subject makes his request for this recorder, including a record model, etc. Subject mays he is free when he wants to be free in relation to his missions. If he can fix the 'ANTA' matter up quickly, he'll 'spit' on them! He arrives at the Embarsy every norming at 9, 'he' sees hie, at ten to ten he has finished breakfast and goes out for ten minites. At the Embarsy he has discussions, answers any questions they may have for him, drops in to see them from time to time, etc., aits there for a time, but after that he has his own business to attend to, both the Committee's business and null's business, after all, he has to take care of his missions.

Dibject listshis local programs, purchases he wishes to make.

Subject says he will be free anythms during the afternoon the mert day to see the Doctor.

Subject lest at 1916 hours on 24th
July, 1961.