

August 1948

Subject: Comments in Passing on Draft of "Proposed Technical Lanual TH 12 -( ) Radio Intelligence."

#3. The definition of R/I is <u>not</u> that of the Army Navy Descriptive dictionary of cryptologic terms.

#6. Where is the appendix 1 "Glessary of R/I Teams" and what will it adhere to when and if finished?

#10-b The Radie Traffic analysis team apparently does everything: T/A plus evaluation. Shouldnt it be a pyramid  $\underline{*}$  <u>Evaluation</u> \* \* \*Collatoral Info.

DF Intercept (Traffic and intercept control)

What does 10-A do? Administrate only? From description they seen to also evoluate. If they decide as to what will be done they are above the evaluation phase whereever it is done.

#13. What about radar, guided missiles, facsimile etc ad nauseam? What and whe will intercept them or is the paras definition of "any mode of radie transmission" ambiguous. Leaving out radar, guided missiles etc which is a ministake but apparently established policy, this should read "radie communications" which infludes facsimile and radie telephone. In connection with facsimile please note a MIS T chnical D gest talked about use of plane bourne facsimile for sending in photorecce results which was in experimental stage over two years age.

In first sentence of this paragraph should "radio intelligence equipment" rLed "radio intercept e quipment"? I thought intelligence was a function of the intellect with no mechanical equipment as a substitute.

#15. Direction finders. To no both "portable" and "mobile" imply the idea of transportability. Is "Fixed" and "mobile" a better distinction or is "long range" and "short range" even better. W<sub>1</sub>thin short range D/F equipment you will have variation in size as for example the German Radie Defense Corps

Ans (covored trucks with "nobil sets inside) and suites D/F used both and even coat pocket sets forextremely close range work against agents. The entire problem of agent rad o traffic requires serious consideration and should cortainly be included in any tactical R/I Manual. The Germans started world war II with both Abwehr, G stapo and regular police (Grpo) organizations for dealing with agents. A special "Radio Defense Corps had o be created with several companies of signal corp specialists in D/F, interception, t/a, and cryptanaysis toithin the OKU ( OKH/AgwNV/Fu III) to deal with agent traffic in Gernany and occupied territory in France, Pland, Scandinavia etc. Even so in 1944 it was necessary to pull one entire signal i telligence regiment out of the German Army Signal Intelligenc organization on the western front (KONA 6) and assign it exclusively to Russian agent traffic because of the extremely large scale use of agente by the Russians. As Russia is the assured potential energy for the purposes of this R/I manual the entire matter of agent traffic should be considered in the fullest detail. Monitoring of agent traffic Gave the Germans tactical intelligence on R ssian intent, future areas of cajor attack etc.

#16. Is the solution sentence grammatical? And who is the assured energy here. And isn't this onlire manual confused on distinction between high level(strategic) communications intelligence operations and low level(operation or tactical) radio intelligence activities?

#17 Fore questions arise as to distinction between strategical and tactical and will not be mentioned further in these comments. Should it be Strategue, Operational, and Tactical with operational and tactical belonging to the field of the radio intelligence teams (for whom this manual is intended) and strategical and operational (yes, there is overlapoverlap and continuity are equally important for communications intelligence) intelligence which the "fixed stations and ASA itself are charged with?

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#187-a Does the A/I company supply Army Group or does the Theatre ASA feed theater and Army Group and the R/I company work from division-up through Army?

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Doesnt this imply that the R/I Company is only concorned with ground force traffic? What about air-ground liaison nets, and the entire field of overlapping intelligence from army air and naval nets to say nothing of the Police (if the energy is Russia?) I get the feeling these R/I teams are going to be working in a little vacuum all b themselves and not getting anywhere.

**67-/a-1** Does the last sentenc imply that ASA is assigning the mission for front line R/I companies?

\$7-a-4 What is "further counterintolligence of our own radio cormunications?"Is it communications security, durmy traffic, fake traffice, etc?

\$7-b Same remarks about Army Navy Air and Police as were raised for 17-a. The Germas said that monitoring Russian internal connercial nets gave their operational forces very little information although it was of value to strongth estimates----and the Germans did not have a true strategic airforce. I question if it should be included in an operational level manual, however. Should there by T/Osand T/Es for each type of E/I outfit gentioned here and elsewhere? And wouldnt tables of T/OandE eliminate the need for a lot of this text?

It again sens unfortunate that all emphasis is placed on energy ground force nets without indication of inter relationship between ground air and police and possibly naval and partisan or agent nets. Further in re 19-b-1 you do not obtain <u>and evaluate</u> radio intelligence information solely by *fifdiff* intercepting and finding locations of energy connercial and Arry high e chelon radio communications", such information is presumably availabledong before the R/I companies get into the field. 18-b-4. Aside from the hope that training would be completed before the R/I company gets to the field, shouldnt such training as this be listed as the mesponsibility of the commanding efficer, partic ularry the liaison aspect, rather than as a part of the general mission of the entire company?

**REF ID:A65575** 

19. This sounds like badly written personnel canagement-the field R/I company will be AO a military unit and b) too busy for the excellent suggestions contained here. The very level (low echelon) of traffic and the nature of the work will force a close connection between the intercept operator and the T/A people anyway. I an still confused on the difference between intercept control, t/a and crypt in deciding what to cover etc. For example, both the TA section in pars 19 b 3 and the operation control section in 19 are directing coverage? and crypt and G-2 requirements are not yet included'. Again TA and operation nd control are evaluating, assigning missions etc. In 19-b-2 we hear of data from "all possible sources" failing any other mention in this manual of captured documents, p/w interrogation investigation of ene my emuipment etc is this where such collateral naterial is scanned? And who gets it for then, through what channels or do they hope an energy tank crashes over an antenna and they loot the contents --- if a plane crashed on their antenna they would presumably not be intersted in the contents since the are only ground force. Nuts. 19-c 3 raises the linguistic proble, where will they get dictionaries, new vocabulary items etc? c-4 indicates cryp reports to TA for forwarding to G-2 and for eval uation-coes this near the TA team does the evaluation and the G-2 man accepts it or will the higher level G-2 not get the decode without corment for his own evaluation?

25. ASA interests again-in conflict with field G-2 requirements?

25.2 "The radio spectrum is scanned for traffic". What kind of traffic, r/t or w/t, what about anything else. Cf German definition of signal intelligence

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**REF ID:A65575** 

as "concerned with <u>every</u> manifestation in the radio spectrum". And also, what about wire tapping at the front line level.

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25.b.2 Is this sample message proper in a restricted manual?

26. The manual is forever talking about the ASA sub-sectionbut the ASA-subsection is not described until Sec XI--shouldnt it be described at the first if it is the superior organization?

30-A Hurrah. Intercept non-morse.2

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> 36. The ASA-sub-section. Only a general criticism here-but in general the duties and functions are very vague. Would a field commander from reading this know what the few individuals who turn up as his "ASA sub section" are supposed to be doing? The description in para 37 appears confused-is this ASA sub section to work at Arey Group, Army, theater division or what level? What rank will the officers hold etc?

> 38. Functions of ASA sub-section are pretty general but what about collateral information to be passed to ASA and down to "I companies as RW interrogation, captured documents, enemy equipment and so on-shouldnt this all come through the ASA sub section?

39. A ain we have G-2 and ASA desires being formulated. This is almost solely on the intelligence side---who will correlate crypto security and the needs and requirements of the signal officer at the same level?

Generally, the ASA sub section appears to be concerned solely with ground force re uirements. Isnt the ASA sub section the place to look for coordinating Air and Palice nets and exchanging information on naval if the RI companies are only going to be concerned with ground?

42. Claims for radio intelligence advanced here can raise plenty of eyebrows, particularly since RI has not been integrated with other sources of i telligence even for briefing purposes. I think there should be some discussion of the role of radio inelligence in relation

## REF ID:A65575

-6-6 other sources of intelligence- if only to indicate hat they are and indicate what mutual benefits will be deriveble by each from an exchange of results. For example, from the LN Abt 353 papers there are illustrations of signal intelligence, by D/F, attempting to locate radar transmitters, to correlate with TA information on radio circuits concerned with DV/ radad bearing sets in operation. Radar search results, peasuring the timpulees used, the tone or note of the transmitter concerned were coordi ated with the signal intelligence results and photo reconnaisance material, which shows typical radar sites clearly, was also integrated. Pw statements about new radar equipment (IFF in planes) were cited, and crashed air craft were examined for any equipment contained, the end product was presented in a single "signal Intelligence " report on Russian "adar.

44 and following deals with movement of RI companies in attack etc. I should think that the ETO histories of RI Units would have interesti illustra ive material. When "island hopping" is mentioned you wonder just which war time manual is being copied w rbatim? Or will we island hop to  $M_{OSCOW}$ ? And here, too, in a combined operation with he navy there is no indication that any enemy maval circuits will be of any interest to signal intelligence.

46 and 47. The saddest paragraphs of the paper for what is unsafd. On liaison and cooperation compare the frequent and securring remarks put in above.