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PSYCHOLOGICAL WARFARE RESEARCH STUDIES
WITHIN THE AIR FORCE

A. RESEARCH PROJECTS THAT HAVE BEEN COMPLETED AND REPORT ISSUED:

1. Crisis and Disaster Studies. This project contains several studies in relation to Civil Defense. The following studies have been completed and are published: (RAND Report)

a. Psychological Impact of Air Attacks: A Survey and Analysis of Observations on Civilian Reactions During World War II.

b. Psychological Aspects of Vulnerability to A-Bomb Attacks.

c. Proposal for Field Research on Psychological Impact of Peacetime Disasters.

d. Research Planning.

2. The Exploitation of Superstitions for Purposes of Psychological Warfare. A study of superstitions and their possible use in psychological warfare. Published in April, 1950, as RM-365. RAND Report.

3. The Warning of Target Populations in Air War (WARBO). A study of the feasibility, methods, and effects of warnings given to target populations in advance of air attacks. Completed November 1949 as R-167. RAND Report.

4. "Psychological Warfare Uses of Unconventional Weapons".

Three parts:

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ARMY, NAVY and USAF review(s)

completed.

SEP 20 1950

S E C R E T

a. A report on a conference which discussed the psychological effects of the use of atomic, radiological and economic weapons, as well as an earth-circling satellite vehicle. Issued in March 1949, RM-120.

b. A study to provide basic considerations bearing on the policy that should govern both psychological warfare operations and domestic information on satellite vehicle. Completion due 15 September 1950.

c. A study on the use of hypnosis by the Cominform countries to elicit confessions. Issued in April 1949. RAND Report.

5. Soviet Military Intelligence. A study in the form of comments on a book entitled "Handbook for Spies," by Alexander Foote, who served in the Soviet Military Intelligence from 1934-1947. Completed--RM-207. RAND Report.

6. An Analysis of Soviet Society. A study prepared by the Survey Research Center, University of Michigan, under the direction of Rensis Likert. A study, based on interview data, of the basic social-psychological factors of the Russian people as guides to air attack on the Soviet Union. Published in March 1949.

B. RESEARCH PROJECTS PRESENTLY UNDERWAY

1. Overseas Interrogation of Current Refugees. A project primarily designed to obtain sociological, psychological, and

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political data on defectors from behind the Iron Curtain. This is part of a larger project listed under B-13. The project is under the direction of Dr. Kluckhohn, Harvard University, and is now under way in Germany.

2. Methods of Interrogation. A study, based on interviews of defectors from the Soviet zone, to arrive at most effective method of interrogation for Soviet defectors. Under the direction of Kingsley Davis and being conducted in Germany.

3. The Soviet Police System. A study for the development of data regarding Soviet Police systems as a baseline for strategic vulnerability planning. A documentary study to furnish information on the organization of the police system, its relation to other segments of the Soviet population. Under the direction of Mr. Hollis and staff presently under way at the Library of Congress. Completion due in 1951.

4. Organizational Weapons. This project deals with an important instrumentality of Communist political warfare. The organizational weapon consists in the use of closely knit, disciplined cadre units to gain access to, and if possible, seize control of civic or professional (e.g., labor) organizations. The study presents and analyzes the Communist theory of organization and Communist techniques of wielding the organizational weapon, such

SECRET

- 3 -

S E C R E T

as infiltration and "united front" tactics; it shows the capabilities of these techniques as well as possible ways of counter-acting them. Completion due this fall (1950). RAND Project.

5. "Attention of the Soviet Radio to Sources of Information in the U.S. and Marshall Plan Countries." A study seeking inquiry in three fields:

a. To what American and Western European sources does the Moscow Radio give the most attention?

b. What types of statements are most likely to bring a reply from the Moscow Radio?

c. What are the principal patterns or argumentation used by the Moscow Radio?

Completion due 1 November 1950. RAND Project.

7. Soviet Political Strategies and Conduct. A systematic reconstruction of the operational code of the Bolshevik Party based on an intensive analysis of the writings of Lenin and Stalin. The study will also deal with rules of conduct which can be inferred from actual Soviet behavior but are in no way formulated in public Soviet communications. Due for completion in the fall of 1950. Also under this project is a study on Conflicts at the Top Level of the Soviet Communist Party. This subject has been approached by an intensive study of the Purge Trials. Due for completion 15 September 1950. RAND Project.

SECRET

8. "Psychological Aspects of Air Power." A continuing study on various aspects of air power such as "Bombing and Resentment in Japan," "The Targets of Resentment Occasioned by Bombing," "Soviet Communications," "Soviet Evacuation Policy in World War II," "The Soviet Air-Raid Defense System During World War II," "Russian Cities and Towns Bombed During World War II." RAND Project.

9. "Studies in Soviet Culture." This is a continuing project of the following studies: "Problems in Party Leadership and the Management of Soviet Agriculture and Industry"--completed; "Problems in the Management of Youth by the Family, the Party, and the Government"--completed; "Dissenting Attitudes and Conflicts with Authority in Various Groups of the Soviet Population as Expressed or Covertly Conveyed in Contemporary Soviet Literature." This project is being continued during FY 1950 with emphasis on the study of the Soviet Image of the West. RAND Project.

10. Project "Airspeak." A study for developing methods and techniques to promote defection in the Soviet Air Force. Now in progress. RAND Project.

11. Political Implication of the Air Force in Time of Peace. A study similar to Mahan's work on Sea Power. The possible role of the Air Force as a guarantee of peace; under progress. RAND Project.

12. Western Political Strategies and Conduct. A continuing study on Western political strategies, a companion study to 7 above. The major political attitudes, beliefs and practices of U.S. and Western foreign policy-making groups are being analyzed and contrasted

with the Bolshevik code. Specific political "strategies," such as those of "cooperation," "isolation," and "containment" are being examined. RAND Project.

13. Project "Curtain Raiser." A study now under way in Europe of the psychology of the Russian Armed Forces. Based on interrogation of military defectors from the Occupation Armies. Due in 1951. RAND Project.

14. Capabilities of the Non-Communist Left in Western Europe. Two studies: (1) describes the existing political and economic organizations of the democratic left in Western countries and analyzes their "operative ideologies;" (2) (Columbia University) seeks to evaluate the impact of post-war developments upon the various Western democratic labor groups. Both studies will provide indications as to what U.S. policies are best suited to strengthen democratic regimes in Western Europe. Completion due 1 November 1950. RAND Project.

15. The Intelligence Value of Content Analysis. This study deals with the problem of determining whether the content analysis of mass communications emanating from a given (e.g., enemy) source is capable of producing valid intelligence data such as correct evaluation of the enemy's plans and intentions. A preliminary report has been issued and the final report will be completed in 1950. RAND Project.

S E C R E T

16. Methods of Attitudes Measurement. A series of undistributed reports on techniques of attitude measurement. Reports have been prepared by the Harvard Laboratory of Social Relations. Completion due in fall of 1950. RAND Project.

17. The Strategy of White Propaganda in Wartime. A study of OWI's operations in World War II to develop psychological warfare techniques, tactics and strategy. Preliminary report completed April 1949; no final report yet prepared. RAND Project.

18. Basic Psychological Characteristics and Behavior Tendencies of the Russian People Most Vulnerable to Propaganda Leaflet Appeals. Those basic traits, motives or "drives" within the Russian people which are susceptible to propaganda leaflet appeals. Also a guide or handbook of "dos" and "don'ts" that should govern the actual preparation of propaganda leaflets. This project is now under way in Europe under the direction of Dr. Kluckhohn of the Russian Institute, Harvard University.

C. RESEARCH PROJECTS THAT HAVE BEEN APPROVED BUT WORK HAS NOT STARTED:

1. Propaganda and Counter Propaganda Techniques for Air Force Operations. This project was approved 1 August 1950 but has not yet been allocated to a research agency. A project designed to determine the number of leaflets critically needed to saturate target population whose size is known. To determine the speed

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of dissemination of word-of-mouth communications of the content of leaflet messages and to thoroughly explore the application, form, and design of leaflets.

2. Chinese Communist and Non-Communist Elites. A pilot study on Chinese political leadership and leadership potential has been initiated. RAND Project.

3. Soviet Behavior in the Case of an Increase in Soviet Military Capability. A proposed study not yet under way. It is proposed that speculations on the future conduct of Soviet policy can be appreciably reduced by utilizing various suggested research techniques. RAND Project.

4. Study of Target Vulnerabilities for Air Force Psychological Warfare Operations. The study has been approved but the project has not been allocated. RAND Project.

5. Vulnerability of the Russian People to Effective Values of Verbal Symbols. A study in the preferred methods of producing confusion, fear, and panic in Russian urban populations by information, propaganda and rumor. Awaiting funds and qualified people to undertake the project.

6. Psychological Warfare measures to be Employed on Populations Overrun by Red Army. Probable reactions of Soviet, Satellite, Allied and U.S. populations to initial Russian military successes.

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and propaganda themes which should be avoided until preliminary evaluation of the effects of the strategic air offensive has been made. Awaiting funds and qualified people to undertake the project.

7. Existing or Potential Cleavages, Frictions, Tensions, and Animosities within the Communist Party. A project to study possible cleavages existing within the Soviet Union, the brittleness and stability of the Stalin Regime and the possibility of employing psychological measures to foment distrust, suspicion, and strife. Has been approved and is now at Air University for contracting.

8. Possibilities of Establishing a "Russian" Government-In-Exile. A study to explore the use of anti-Soviet groups to counteract the present programs and plans of the Communist Party. Possibilities of preparing such a group to be ready and capable of taking over the government of the USSR in the event of the collapse of the present Communist regime. This project is awaiting funds and qualified personnel to undertake the project.

9. Methods by Which the Psychological Effects of the Air Offensive Against Russia Can Be Maximized in a Direction Favorable to U.S. Aims. A study of the basic principles, capabilities, and limitations of the leaflet as a psychological

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warfare weapon. Ways and means of directing the hatred and resentment of bombed Russian people towards their own regime. Themes which can be most profitably utilized in leaflets to Russian people during the strategic air offensive. Ready for contracting.

D. RESEARCH PROJECTS THAT ARE PROPOSED BUT NOT APPROVED:

1. Degree to Which Economic Destruction in Russia Caused by the Air Offensive will be Accompanied by Breakdown of Police and Government Controls. Structure of the internal Soviet police system and manner of exercising control. Extent to which police control must break down before internal revolt is probable. The recuperability potential of the police apparatus in the event of disaster and collapse. The project is at the Air University for preparation and return to Air Staff for approval.

2. Probable Psychological Effects of the H-Bomb. A project designed to explore the probable psychological effects of the H-Bomb, methods of obtaining maximum psychological effectiveness of the H-Bomb, expected reactions, if notice of intention to bomb certain targets is given. Up for Air Staff approval.

3. Capabilities of Organizing, Administering, and Supporting "Underground" Resistance Groups in Russian and/or Russian Occupied Areas by Means of Air Operations. Effectiveness of the leaflet as a means of planting and spreading rumors in a bombed population

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S E C R E T

and capabilities of leaflets to promote defection within military and civilian ranks. Project has been sent to Air University as a proposed project for 1951 research.

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AIR FORCE RESEARCH IN DEVICES OR MATERIEL
PRIMARILY DESIGNED FOR PSYCHOLOGICAL WARFARE PURPOSES

1. Leaflet Bombs. Approximately 50 M105 leaflet bombs utilizing M16A2 Adapter Clusters will be test dropped in September 1950 at Eglin Field to determine:

a. Maximum altitude at which subject bomb can be released and remain ballistically stable.

b. Proper procedures, equipment and personnel required to fill subject bombs in large numbers rapidly and efficiently.

c. Ground dispersion pattern of leaflets when bomb is opened at 1000, 1500, and 2000 feet altitude.

A small number of M16A2 Adapter Clusters utilizing a barometric fuse instead of a mechanical time fuse will be test dropped from 35,000 feet in October 1950. A small number of 500 pound CP bombs will be test dropped from 35,000 feet in November 1950. Research and development on the new 750 pound bomb is being continued.

The military characteristic of this new leaflet bomb includes a requirement that the bomb be frangible or disintegrating insofar as possible, in order that it may be used for the dropping of leaflets on neutral and friendly areas with the least possible hazard to personnel from the falling bomb cases.

2. Droppable Tape Recorder. Proposed project by The Brush Development Company, Electric-Acoustic and Crystal Manufacturers to develop a tape recorder attached to a loud speaker contained

SECRET

in a unit 3 feet long by 6 inches in diameter and weighing approximately 35 pounds. These units to be dropped by A/C and on impact with the ground the unit would broadcast a message within an effective radius of 100 feet for a period of approximately 6 hours. Disapproved as impractical from an Air Force standpoint.

3. Stick-up Signposts. A proposed project to develop a unit to be dropped from A/C designed to stick in the ground and on impact flanges would automatically open displaying a cloth with a printed message. Disapproved.

4. Sticky Anchor Kites. A proposed research project to develop ordinary kites for release from high altitude which would drift to the ground. These kites would have attached to a weighted string an anchor containing sticky substance which would attach itself to anything it came in contact with. Printed on the kites would be any desired message which could be read from 80 feet. Disapproved.

5. Dyestuff. A proposed research to develop water soluble dyes to be exploded over cities marked for bombing and accompanied with leaflets warning the population that the areas marked with this dye will be bombed. Disapproved because of lack of air-lift capabilities.

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PSYCHOLOGICAL WARFARE RESEARCH STUDIES
WITHIN THE NAVY

A. RESEARCH PROJECTS PRESENTLY UNDERWAY:

1. Public Attitudes and Behavior. A continuing project being conducted at the University of Minnesota to investigate factors producing readership and listenership habits among segments of the population in metropolitan, small city, village and rural areas. And to determine ways of increasing readership and attendance to radio programs aimed toward changing public opinion. Funds allotted through 1951.

2. Research in Contemporary Cultures. Conducted at Columbia University under the direction of Dr. Margaret Mead to explore the culture of certain specific nationality groups in the United States, supporting these studies by inquiries into past and contemporary cultures of the countries from which the immigrant groups derive. To test and refine methods for the collection of such information and utilization of data collected. Funds contracted through 1951.

B. PROPOSED RESEARCH PROJECTS:

1. A Systematic Organization of Basic Information on Eurasia. A proposed study (there are no funds available at present) to systematically collect, classify, analyze and summarize available basic information on the regions and peoples of Europe and Asia.

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Work would begin in the following areas: Korea, Southeast Asia, Philippine Islands and Siberia. It is proposed that the study be conducted by Yale University under the direction of Dr. Clellan S. Ford.

2. Detection of Deception. A proposed study (no funds currently available) to investigate techniques for controlling variables which influence subject's responses and standardize methods for evaluating responses. To develop standardized routines for obtaining and measuring responses of the suspect which could be carried out by technicians with a minimum of training. To develop improved instruments of lie detection. This project would be a joint undertaking between the Psychology Department and the Department of Police Administration at Indiana University.

3. Political Geography of Prenational Groups. A proposed study (no funds available) to study the political geography of prenational Polynesian groups including such items as territorial concepts, ideas on boundaries and capitals and methods of organizing their domains for administration and research. It is proposed that the project be conducted at Yale University under Dr. Stephen B. Jones.

4. The Growth and Decay of Rumor. Tentatively designed to develop methods of spreading rumor and techniques for effectively combating rumor once initiated. To be undertaken by

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SECRET

Dunlap and Associates, Inc., New York City, under the direction of Mr. Kenneth Yarnold. No funds available.

5. Development and Destruction of Fear. Tentatively designed to study ways of combating fear in its relation to disaster and panic. Emphasis would be on counter measures and would be applicable to many military situations such as enemy psychological warfare. To be conducted by Dunlap and Associates, Inc., New York City, under the direction of Mr. Kenneth Yarnold. No funds available.

6. Collection, Analysis and Organization of Information Essential to Psychological Warfare. A continuing study designed for at least three years of research to survey the literature, including materials available in the military Services, the State Department and CIA, for purposes of collection, analysis and organization into usable form, the data essential to the conduct of psychological warfare and the implementation of counter measures thereto. Probable cost--\$500,000.00. No funds available.

C. PROPOSED PROJECTS THAT HAVE BEEN DISAPPROVED:

1. Measuring Human Tensions. A proposed project that has been disapproved due to lack of funds that was to study the development and testing of a tension hypotheses through the measure of tension in any population with a view of possibly predicting such things as:

SECRET

S E C R E T

- a. International tensions leading to war.
- b. Racial tensions leading to riots.
- c. Industrial tensions leading to strikes.

2. An Experimental Study in Mass Communications. A proposed project that has been disapproved because of lack of funds. This project was to have been conducted by the University of North Carolina under Dr. Gordon W. Blackwell. The proposed study was for the purpose of identifying and measuring the clusters of habits and attitudes which pattern the uses of mass media by different socio-economic strata and the cultural and attitudinal factors which influence the differential responses of socio-economic strata to informational programs; and the relative effectiveness of particular media in reaching the different socio-economic groups. Tentative cost was to be \$197,000.00.

3. A Study of the Effects of Contact between Children of Different Ethnic Backgrounds in a Recreation Center. In a recreation center where children of different ethnic, racial and/or religious backgrounds play together, to measure the effects of such contacts on intergroup attitudes, and to investigate the conditions under which such contact affects attitudes in different directions. This was to have been a two year project under the direction of Dr. Stuart W. Cook of New School for Social Research, New York City; disapproved for lack of funds.

SECRET

SECRET

4. Proposal for a Psychological Cold Warfare Research Forum

A project designed to construct a social psychological theory of the relations of the United States to other nations, especially to Marshall-aid recipients, Russian Satellites and the USSR. To deduct from such a basic theory implications for practice and examine current action taken by the United States in the international scene as to their soundness and adequacy. The development of entirely new psychological programs that could help resolve the international cold war situation. It was proposed that this project be handled by the University of Michigan under Dr. Harold Guetzkow. Disapproved for lack of funds.

5. The Native Populations of Eastern Siberia. To study and systematize existing materials on peoples and conditions of Siberia including geography, topography, geology, fauna, flora, climate, natural resources, early migrations and ethnic compositions, cultures of the native population and Russian administrative policy toward minorities of Eastern Siberia. Project disapproved for lack of funds.

6. A Comparison of CIA Daily Reports of Soviet Radio Broadcasts and the Original Broadcasts as Monitored by BBC. To study the Daily Report as the only source of Soviet Radio propaganda available in this country in order to specify its more serious

SECRET

S E C R E T

departures from the original and to state the requirements of research in terms of criteria for selection and methods of reporting the content, slanting and other characteristics of the original broadcasts most helpful in defining targets for U.S. psychological warfare. To have been conducted by Communications Committee, University of Chicago, under the direction of Dr. Douglas Waples. Disapproved for lack of funds.

D. The Navy reports there is no research now going on or proposed with reference to devices or weapons that are primarily considered psychological weapons; i.e., siren bombs, screaming shells, etc.

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SECRET

PSYCHOLOGICAL WARFARE RESEARCH STUDIES
WITHIN THE ARMY

A. RESEARCH PROJECTS THAT HAVE BEEN COMPLETED AND REPORTS ISSUED:

1. Lessons on Morale to Be Drawn from Effects of Strategic Bombing on Germany with Special Reference to Psychological Warfare.

This project is under the direction of Kenneth W. Yarnold, ORO, and is designed to evaluate the effect of strategic bombing on the morale of German civilian population as related to the total German civil and industrial war effort. Study completed and distributed 4 October 1949.

2. Psychological Warfare--A Strategic or Tactical Weapon. This project is under the direction of Kenneth W. Yarnold, ORO, and attempts to solve the problem whether or not propaganda is best suited for use in a "hot" or "cold" war, or in a strategic or tactical employment. Completed and distributed in revised form 21 March 1950.

3. The Choice of An Optimum Audience for Propaganda Campaigns. A project under the direction of Oscar I. Litoff, ORO, designed to determine the most suitable audience within an army to be the object of a psychological warfare campaign. The study is concerned with only the amount of influence the audience will have on the army as a whole and assessing the relative values of the various military ranks in relation to the effect they might have

SECRET

S E C R E T

under the influence of psychological warfare, on the effectiveness of the army. Study completed and distributed 5 April 1950.

4. Psychological Warfare Requirements of a Combat Division.

A report based on available records on the ideal organization of tactical psychological warfare in a field army, particularly a combat division. It will be enlarged and enriched by a study now going on partly under contract with International Public Opinion Research, Inc. Distribution made September 1950.

5. Aircasting. This project deals with airborne broadcasting systems for reaching further into enemy territory than is possible with stationary equipment. It shows areas which can be reached by broadcasting systems mounted in conventional bomber aircraft. This study has been completed and is now being edited prior to publication and distribution.

6. Abstract of "Questionnaire for Research into the History of the War Dealing with the Mutual Relationship between Operations and Psychological Warfare" by General of Infantry Guenther Blumentritt. The purpose of this study is to examine Blumentritt's experiences and conclusions regarding psychological warfare. Under the direction of Genevieve C. Collins. Completed and distributed 1 December 1949.

SECRET

SECRET

7. Frontiers in Psychological Warfare. This study is a survey of the possible uses and applications of propaganda. The potential uses of psychological warfare methods are explored. Under the direction of Paul Linebarger. Study completed and distributed 1 February 1950.

8. The Military Value of Propaganda Shell. A statistical investigation of combat psychological warfare compared with other weapon systems, and comparison of effectiveness of different techniques. Project contains three parts:

- a. "Propaganda Shell N. W. Europe;" study completed.
- b. "Theaters Other Than N. W. Europe;" project not started.
- c. "Loudspeakers;" study completed.

9. Military Value of Propaganda Disseminated by Loud Speaker Missions. This study shows that under favorable conditions, which remain to be analyzed, loud speaker propaganda in front lines is capable of saving around one hundred casualties among U.S. troops per mission. It points out the fact that propaganda is far more important in reducing costs of operations in terms of U.S. battle casualties than it is in causing enemy prisoners to come over to our lines. This study forms part of a general series dealing with the value of the various media of combat psychological warfare. The study is completed and in the process of editing for publication and distribution.

SECRET

SECRET

10. The Value of Propaganda Leaflets Disseminated by Aircraft. This study has been completed and distribution is scheduled for September 1950.

11. German Psychological Warfare Against Russia. A project to study the records and similar data on the German psychological warfare against the Russians in World War II. Editorial process has been completed and distribution is planned for an early date.

B. RESEARCH PROJECTS PRESENTLY UNDERWAY:

1. Red Army Propaganda Receptivity. A study on the susceptibility of different audiences within the Red Army to psychological warfare. Preliminary draft is completed.

2. Basic Study on Reliability of Intelligence Inferences on Germany 1937-47 and Reasons Therefor. A project designed to develop sounder methods of obtaining and assessing psychological warfare intelligence. Conducted by the University of Chicago, Committee on Communications. In process of being edited.

3. Objective Study of Success of Themes Against Germany in World War II. Project is under direction of Yarnold and Daly of ORO but is held up at present by non-availability of records. Completion date indefinite. Staff memorandum now available.

4. Systematization of Themes. A project that has just gotten under way in ORO by Mr. Kahn.

SECRET

SECRET

5. Profile of Russian and Satellite Soldiers. A study in Russian audience appeals. Project is presently in progress; a continuing study. Reports due in three months.

6. Study of Use of Prisoners of War in Psychological Warfare. A study conducted by Dr. Bartimo, ORO, designed to determine audience appeals in selected groups. Study is now in progress. Due in approximately two months.

7. The Russian Psychological Warfare Organization. A study proposed to examine the organizational set-up of the Russian propaganda agency similar to study that has been prepared of the Nazi propaganda agency during World War II. In process of collecting data.

C. RESEARCH STUDIES THAT HAVE BEEN PROPOSED:

1. Use of Scientific Publications as Audience-Scrutinizing Device. A study designed to inquire in the question: "Can Russian psychiatric or psychological materials 'tip us off' to significant but otherwise unrevealed features of Russian personality?" It is planned to make a study of Russian psychiatric reports on Russian people.

2. Training Guide for Psychological Warfare. A study to provide a training doctrine for psychological warfare personnel. It is proposed to have the first draft available around July 1951 if project is started soon.

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S E C R E T

ARMY RESEARCH IN DEVICES OR MATERIEL
PRIMARILY DESIGNED FOR PSYCHOLOGICAL WARFARE PURPOSES

1. Complete Mobile Radio Broadcasting Unit. Some thought has been given to the development of a complete mobile radio broadcasting station composed of standard Signal Corps items, and with a power of at least 5 kilowatts. Signal Corps has not received authorization for such a project. Situation at present is virtually same as at the conclusion of World War II.

2. Monitoring Equipment. There is need for a project to develop equipment primarily designed to monitor enemy radio broadcasts. Considerable work has been done on equipment designed for monitoring organic signal communications. Such equipment is not completely satisfactory for monitoring of radio broadcasts.

3. Public Address Sets. A project designed to develop a lightweight, powerful loudspeaker, utilizing the modulated air flow principle of projecting sound, is nearing completion. Development of the same kind of loudspeaker for mounting within a tank turret was, until recently, in a suspended category. Action has now been taken to give this project a higher priority.

4. Airborne Loudspeakers. A need exists for a satisfactory airborne loudspeaker but at present no development is under way to provide such equipment.

SECRET

S E C R E T

5. Sound Trucks. A sound truck to be used in addressing large crowds, in recording interviews for later play back, and as a means of originating radio broadcasts, is presently undergoing tests at the Signal Corps Engineering Laboratory.

6. Still and Motion Picture Equipment. Mobile still and mobile motion picture processing and printing laboratories are in an advanced stage of development.

7. Leaflet Bombs and Shells. The Ordnance Department is in the process of developing leaflet shells for mortars and artillery pieces. However, no leaflet bombs for tactical A/C and no leaflet rolling or loading devices are under development. No development is under way on a leaflet guided missile or a leaflet rocket.

8. Printing Equipment. Emphasis in development in printing equipment is being placed on small size, adaptability, lightness in weight, and operational sturdiness. The photo-offset method of printing seems to be the accepted method for operations in psychological warfare.

9. Terror Devices. No projects are under way to develop terror devices primarily for psychological warfare uses.

10. Target Aircraft Used for Loudspeaker Carriers. It has been proposed that a study be made of the use of the Q 19 AA target aircraft as a carrier for loudspeaker equipment for use in tactical situations. This aircraft is remote controlled and could be used in front line positions.

SECRET