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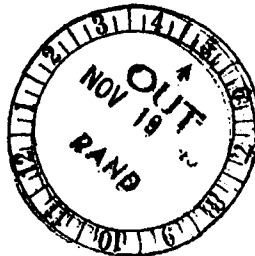
MEMORANDUM

To: Staff  
Date: 11-19-49  
From: F. R. Collbohm  
M-2614  
Subject: GENERAL MOORE'S VISIT TO RAND - SUGGESTED TOPICS FOR DISCUSSION

The attached is a copy of a memorandum Larry Henderson wrote to General Moore in connection with his visit to RAND on December 5, 6, 8, and 9.

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Date: AUG 19 2015

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Date: AUG 19 2015

7 November 1949

MEMORANDUM FOR GENERAL MOORE

SUBJECT: Suggested Topics for Discussion During Visit to RAND

At your request, outlined very briefly below are topics which I believe would be of primary interest for discussion with the RAND staff in the event you are able to spend some time at our Santa Monica office. For your information I have also attached a list of our key personnel. You will note that RAND is organized administratively into divisions representing the various technical or scientific fields of interest of the staff. It is important to note that this is purely for administrative convenience since our studies are all intended to tie together into systems analyses of broader Air Force problems, and in fact we use the so-called "mixed team" approach to all of our work, as I am sure you are aware.

SUGGESTED ITEMS FOR DISCUSSION:

1. Aerial Bombing Systems Analysis

Ed Paxson is in charge of this, our first attempt to make a broad analysis of a part of the future Air Force mission. It involves for a specific strategic problem, an attempt to choose the optimum weapons and delivery means in terms of the overall cost of destroying targets. Much of the basic information for this study has been furnished by the Strategic Vulnerability Branch, without whose efforts the analysis would have been entirely impossible.

2. Economics Studies

You will want to discuss with Charlie Hitch our work on the estimation and comparison of the Economics War Potentials of the U. S. and possible allied and enemy countries. This work was started at the request of the Joint Intelligence Committee and the hope is to develop a technique based on observable and measurable quantities with feasible projections into the future. You will also be interested in our studies on the economic problems in the strategic use of air power on which we held a conference last summer, which was attended by several members of the Strategic Vulnerability Branch. Here there is a clear community of interest because of the importance of criteria for the selection of target systems, recuperability, and the overall effects of damage to target systems. We are also working on general projections of the Russian economy in the future. Here it is necessary to use available intelligence in order to estimate future Russian war potential and the effects of hypothetical air attacks. In this again, data supplied by the Strategic Vulnerability Branch and developed through RAND subcontract research at the Battelle Memorial Institute is important. In collaboration with SCOOP we are studying the Economics of Military Planning, which is extremely important in costing the various components of a systems analysis such as the one being worked on by Paxson. I think you will be interested in some of the problems here.

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Memo for Gen. Moore

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3. Generalized Aircraft Studies

In order to evaluate the future capabilities of the airplane we are, as you know, conducting generalized aircraft studies. You are familiar with some of the results of the studies on bombers, and we have recently obtained some rather interesting data on possible improvements in design criteria for turbojet and turboprop engines. We have also made some early progress in generalized studies of interceptor fighters. I think you will want to talk with Gen. Root about this work.

4. Atomic Weapons

We are trying to develop better information concerning possible future atomic bombs, particularly in connection with the aerial bombing systems analysis. In addition, as you know, we have made some fairly extensive studies on the capabilities and limitations of Radiological Warfare. Here again, basic information on target characteristics supplied by the Strategic Vulnerability Branch has permitted us to evaluate the effects on typical Russian targets. Ernie Flesset can give you a picture of our activities in the field of Nuclear Energy, which of course is of prime importance in all of our work.

5. In the field of Electronics, we are beginning to learn something about such problems as radar bombing accuracy, the effects and possible uses of various types of countermeasures, and the future capabilities of radar in general. These studies are of course particularly important in connection with our analysis of air defense systems. Lloyd Young and his staff will be able to give you an idea of what is going on in this general area.

6. Other items that you may want to discuss are the various applications of mathematical techniques to systems studies as a whole, for example, our work on the Target Coverage problem and on the Theory of Games of Strategy, as well as our plans for the development of our techniques of systems analysis. John Williams will, as you know, be anxious to discuss these aspects with you.

7. You might also want to talk briefly with Charlie Hitch or Merrill Flood about our Logistics studies, and with Jimmy Lipp about the work we are doing on the future capabilities of guided missiles.

8. You will note that I have not included as suggested topics any of our Social Science work, which I know is of interest to you, specifically such items as our studies on the Intelligence Value of Content Analysis and the Warning of Target Populations. The reason for this is that most of our Social Science staff is located in Washington, and I think you might prefer to discuss this with Dr. Speier who of course will be glad to come over and see you at any time. Lt. Col. Sleeper is quite familiar with our activities in this field, and we believe they are of basic importance.

L. J. Henderson, Jr.

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