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Introductory Notes
for
BOB Presentation

28 October 1964

MISSION

The mission of the Office of Research and Development is to support and enhance the intelligence capability of the Agency by the prosecution of all appropriate basic and applied research and development, and in that connection let me state that the great majority of such R&D is applied; that is, it is problem oriented. So-called basic or fundamental research occurs only when long-range planning indicates a deficiency of knowledge in a particularly significant area which must be solved.

REQUIREMENTS

The programs ^{that} ~~which~~ you will see ~~and that you have done some~~ reading on are responsive in general to a variety of requirements. These requirements are generated by other offices of the DD/S&T, by other organizational elements of the Agency such as TSD, Office of Security, Office of Communications, Medical Staff, and so forth. In addition, there are established requirements for information on missiles, atomic energy, BW and CW, etc., which are well documented in numerous Agency publications. Further, the President's Foreign Intelligence Advisory Board and the Director's Science Advisory

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Board, with its sub-panels in Optics and Life Sciences, indicate gaps, approaches, and specific areas where R&D is required. And last but not least, is a continuing analysis within DD/S&T and ORD of specific problems and problem areas and ideas that may effectively and efficiently contribute solutions to intelligence collection problems.

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COORDINATION

Because of our proximity to and ease of communication with other offices in the Agency, the procedure for operation and programming of R&D is rather efficient and on a continuous basis. Furthermore, coordination with the Agency can be made rapidly so that the progress and effectiveness of the R&D is not slowed by transit time for communication.

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In addition to the formal mechanisms of coordination and review such as the Research & Development Review Board, [redacted] Scientific Advisory Board and the Programs Staff of the DD/S&T, we also operate several more informal panels dealing with audio countermeasures and DD/P requirements. In addition, we are continually in close contact with ARPA, [redacted] ACTA, ONR, NIH, AEC, DIA, DOD, NASA, NSA, NBS, NORAD, and many others. I might mention also that we have periodic get-togethers with our

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[redacted] in the progress of scientific aids to intelligence collection.

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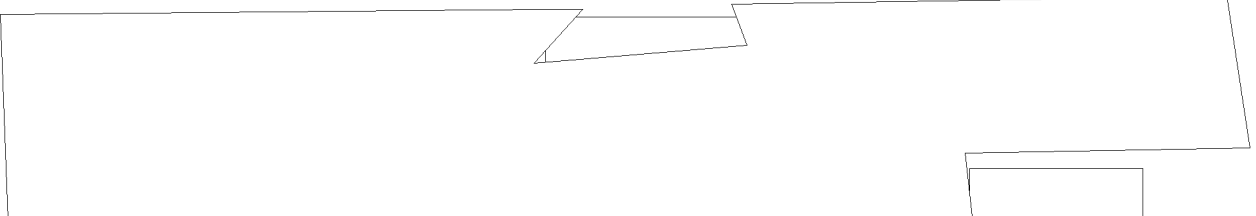
In these contacts we are seeking to utilize the results they have achieved in past programs which can be applied to existing intelligence requirements, and on the other hand, they are seeking from us the utilization of our technology and specialized equipment which may exceed the state of the art to further their own requirements.

We also have several joint programs with such agencies, for

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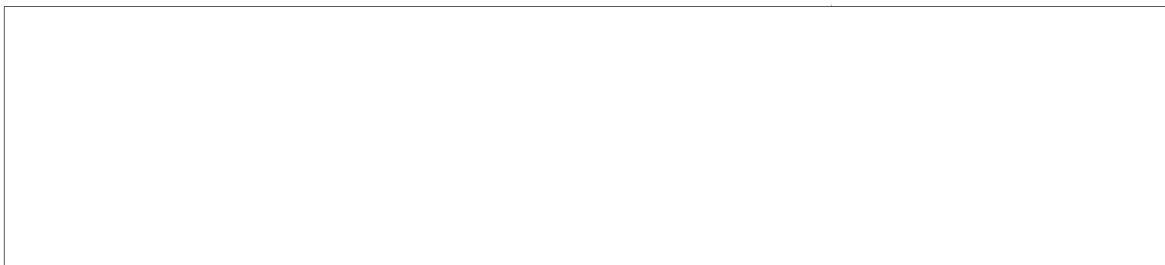


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RESOURCES

During the past year, which was essentially the first complete fiscal year of operations, efforts were continued in recruitment of highly qualified scientific and technical personnel. As of now, the technical staff consists of PhDs, Masters' degrees, and Bachelors' degrees, and before the end of this fiscal year we expect to reach our interim ceiling of personnel, which is short of the initial planning for the Office.

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PROGRESS During this year also, the Office, for a young office, has made many substantive and valuable contributions to science and technology and the craft of intelligence. Among these are a complete review of the fundamental problems occurring in satellite reconnaissance and in improving and validating the polygraph. We also provided some of the initial detailed scientific evaluation of the feasibility of the [redacted] concept. We also developed the basic parametric concepts of the [redacted] program, about which you will hear more. Its initial research in IR cameras appears now to be coming into the real pay-off region. There are many others, and I will shortly discuss a few of them with you in more detail.

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PLAN OF BRIEFING A summary of our plan for this afternoon is to present a fiscal summary of the Office to briefly refresh your memory and then to proceed to the functional breakdowns of the Office; next, to present a systems analysis approach to collection systems, which gives a little bit different perspective of the functional organization of research and development as contrasted to the normal plumbing diagram. Following this, we would like to give you a thumbnail discussion of several programs in the Physical and Life Sciences which are pertinent and topical. Following that, we hope to turn the meeting over to you, so to speak, so that proper time may be allowed for items of particular interest to you. [And further, although we wish the presentation to be somewhat organized, questions are invited at any time.

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