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DEC 1958

**MEMORANDUM FOR THE DIRECTOR OF ADVANCED RESEARCH
PROJECTS AGENCY**

SUBJECT: Intelligence Requirements for SENTRY

1. Reference is made to the memorandum, subject: Intelligence Requirements for SENTRY dated 10 November 1958 and subsequent discussions with representatives from your office regarding reprogramming of Project SENTRY.

2. The highest priority intelligence need during the foreseeable future will continue to be intelligence related to warning of the Soviet air offensive threat. Project SENTRY's development and operational employment should be directed towards achieving a maximum return of intelligence bearing on the warning problem. To assist in project planning, the following breakdown by time periods will provide more explicit guidance in regard to the relative priority of the various collection capabilities inherent in the SENTRY program:

a. 1959-1960 Time Period - Based on present national estimates, Soviet ICBM operational deployment will be taking place during this period. Considering the relative state of development of the several SENTRY sensor systems, it is our judgment that photo coverage of the entire Soviet Bloc represents the most urgent requirement. In order to identify missile sites during the construction period and provide information concerning the size and nature of the Soviet ICBM force it will be necessary to have periodic photographic coverage of most of the Soviet Bloc with ground resolution of 20 feet or less (identification of mobile or transportable units may require ground resolutions of 10 feet or less). Initial coverage should be accomplished by mid-1959 and reported at intervals of approximately 6 months through 1960 to meet the minimum requirement for comprehensive photo coverage of the Soviet Bloc four times during the critical construction and deployment phase of the Soviet missile program. High priority should be placed on ELINT coverage to be conducted in conjunction with the photo mission. In this respect the first emphasis should be placed on a general coverage of the electronics spectrum associated with

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As the state of the art permits, the effort

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