

~~SECRET~~THE SECRETARY OF DEFENSE  
WASHINGTON

MAR 3 1961

EO 3.3(h)(2)  
PL 86-36/50 USC 3605MEMORANDUM FOR THE DIRECTOR, CENTRAL INTELLIGENCE  
THE SECRETARY OF THE ARMY  
THE SECRETARY OF THE NAVY  
THE SECRETARY OF THE AIR FORCE  
THE DIRECTOR, NATIONAL SECURITY AGENCY ←

SUBJECT: Sensor Facilities Survey

In order to assess the [ ] capabilities and trends in missiles, space vehicles and other high-speed, high-altitude research craft, detailed analysis of non-communication electronic emissions, radar returns, and optical data obtained from world-wide sensors is necessary. These data, when properly analyzed through existing techniques, provide a firm basis for intelligence estimates of the present and future [ ] military capabilities in missiles and astronautics. The categories of data that are necessary for intelligence analysis in this very important area have been approved by the United States Intelligence Board and passed to the Services and other agencies with a collection potential in the form of UNIB requirements.

Sensor devices under U.S. control have previously been identified and tasked to provide the intelligence community with desired data, and are presently providing significant and timely information. However, modifications to existing equipment and the installation of new or additional sensors on a world-wide basis in support of scientific or operational programs have undoubtedly increased the over-all U.S. capability to satisfy the intelligence needs.

Of primary concern are the radiometric, radar, and optical sensors which have the greatest potential for detecting, identifying and tracking [ ] To identify for future action any gaps in sensor capabilities and/or geographic location which, if filled, would significantly enhance the intelligence gathering capabilities, the attached questionnaires concerning radiometric, radar, and optical equipment have been prepared. The completed forms are intended for use in punched card equipment for establishing a current catalogue of sensors which will become the basis for a study to identify the gaps mentioned above.

Your cooperation in preparing a questionnaire for each sensor under your control that is, or will be operational by 1 July 1961 and that has a potential for satisfying the intelligence requirements, will be of considerable benefit to the National intelligence efforts. For guidance in completing the forms, intelligence information requirements applicable to radiometric as well as radar and optical sensors are included with each type of questionnaire. Any remarks pertaining to the sensor capability versus data needs will be appreciated and considered in future actions.

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To provide a central point for compilation of results, which will be integrated with the complete inventory of U.S. space flight ground environment equipment, completed forms will be returned to:

The Office of the Director of Defense Research and Engineering  
Attn: Assistant Director (Ranges and Space Ground Support)  
Room 3E130, The Pentagon  
Washington 25, D. C.

Signature Authenticated By:

  
REID C. BUSH  
CWO 4 USA

Signed  
ROSWELL L. GILPATRICK  
Deputy Secretary of Defense

cc: State  
NORAD  
A2C

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