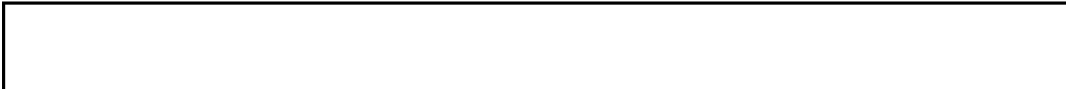


June 30, 1965



Monthly letter progress report (Continued)

Comments on Status

Task II - Item 1: "Submicron Measurement Error Analysis"
The third preliminary technical report was completed and is being submitted separately. Reports No. 1 and No. 2 dealt with the physical and metallurgical properties of materials. Report No. 3 deals with structural rigidity and vibration.

Task II - Item 2: "Signal Strength of Broadcast Radiation of Closed Circuit TV"
Work is stopped on this item pending decision on a recommended exploratory test program.

Task II - Item 3: "Special Purpose Microscope, Magnifiers and Accessories"
This item has been inactive this year. For activity next year, we recommend that an investigation be made of the application of closed-circuit TV to microscope viewing.

Task II - Item 4: "Automatic Target Recognition"
At the request of the Technical Representative of the Contracting Officer, information was obtained on the Automatic Target Recognition studies being conducted at

Calif. On June 18 the program was discussed with Mr. [redacted] program manager and others of the [redacted]. The work started several years ago with an analytical study of learning machines. They developed a theory of operation of a self-organizing (or self-learning) machine based on the Ashen-hurst-Curtis theory of decomposition of switching functions. They tested their theory by computer simulation and decided it would work. About 6 months ago they began to look at inputs to their proposed learning machine which would make it an automatic target recognition device. For imagery inputs they decided they would have to preprocess the imagery and the preprocessing techniques and procedures has occupied them since. A full report on the activity is being prepared for separate submission.

Task II - Item 5: "Lamps for Rear Projection Viewers"
This is a new item which was authorized effective June 1, 1965. It is being undertaken jointly by [redacted] under subcontract

Declass Review by NGA.

June 30, 1965

Monthly letter progress report (Continued)

STAT The principal activity to date has been the gathering of data on various appropriate lamps and determining the significance of the data as applied to rear projection viewers. Gaps and discrepancies have been found in the manufacturer's data. A suggested format for presentation of the data has been established and will be submitted separately.

STAT