STAT

Task Order No. 04

20 July 1964

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Post Office Box 9642
Rosslyn Station
Arlington, Virginia 22209

Subject: Laser Recorder Monthly Status Report, Task Order No. STAT

In accordance with the subject contract, the contractor herewith submits Monthly Status Report No. 1, covering the period 1 July through 19 July 1964. In this initial report, only two weeks are covered. This is due to the fact that an executed contract was not received by this contractor until 1 July 1964. All subsequent reports will cover a full thirty-day reporting period.

This program for a Laser Display Feasibility Study is being conducted by s STAT
under the technical direction of STAT
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The program began with a review of the problem as described in the proposal. STAT
The overall program plan was reviewed and a detailed plan for the first report period was established. This plan called for an early start on the literature searches and reviews described in the statement of work.

Literature searches have been started in the areas of modulation, scanning, and screens. At the outset, these searches will be a joint effort by engineers of the and bibliographers of the S&ID Technical Information Center. Papers and bibliographies presently in the laboratory's files are being used as a starting point for the searches. STAT

Effort has been started to accumulate information on lasers which are commercially available and lasers expected to be available either on the commercial market or as developmental devices in the near future. STAT
has indicated that a xenon laser having output wavelengths ranging STAT
from 0.2 microns to 5 microns is expected to be available within nine months. This laser is of considerable interest relative to the subject study, since the 0.2 micron UV output has a significant advantage over present red laser outputs for certain applications. A UV laser would permit greater depth of modulation with interference recording techniques, and would greatly extend the range of screen and recording materials usable with laser display systems.

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The plan for the next month is to pursue the literature searches already started, and initiate a concentrated effort to obtain as much information as possible on lasers and other light sources. In addition, detailed plans for the remainder of the study will be drawn up. It is expected that by the latter part of the coming month enough information will have been accumulated to allow theoretical and analytical work to be launched in specific problem areas.

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