

SECRET

Contract

FY-65 Quarterly Report, No. 4

25X1

PAR 217

28 May 65

SUBJECT: Optimization of Lasers

TASK/PROBLEM

1. Explore the production of 0.53 micron (blue-green) laser radiation by harmonic doubling in KDP and ADP crystals.

DISCUSSION

2. During the first two months of the quarter, a wide variety of technical journal articles were read which dealt with visible light laser systems. A list of sources was appended to the 3 May 65 monthly report.

3. The material read so far gives very little information upon mode control, beam uniformity, etc., which is of interest for photographic application.

4. Plans have been made for a vendor search of specifications and prices of lasers providing output between 0.4 and 1.1 micron wavelength.

PLANNED ACTIVITY

5. In the next quarter, we expect to complete the vendor search described above and begin preparation of the final report for the project.

Declass Review by NIMA/DOD

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AND DECLASSIFICATION