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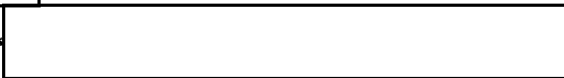
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November 30, 1965

Monthly letter progress report



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LOG OF ACTIVITIES

Tuesday, Nov. 2, 1965

Preparation of reports and review of vibration power spectral density concept. (Principal Associate, 3/4 day, Task II)

Wednesday, Nov. 3, 1965

Preparation of reports. (Principal Associate, 1 day, Task II)

Thursday, Nov. 4, 1965

Library search for technical data on Sylvania metallarc lamps, Westinghouse thallium iodide mercury additive lamps and General Electric high pressure sodium vapor lamps. (Principal Associate, 1/2 day, Task II)

Monday, Nov. 8, 1965

Visitation to [redacted] made at the request of the Technical Representative of the Contracting Officer. (Principal Associate, 1 day, Task I).
Visit approved by Technical Representative _____

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Wednesday, Nov. 10, 1965

Preparation of reports. (Principal Associate, 1 day, Task I)

Wednesday, Nov. 17, 1965

Visitation to [redacted] made at request of Technical Representative of Contracting Officer. (Principal Associate, 1 day, Task I)
Visit approved by Technical Representative _____

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Thursday, Nov. 18, 1965

Library search for Bureau of Standards work on Laser stability for metrology. (Principal Associate, 1/2 day, Task II)

Friday, Nov. 19, 1965

Initiate work on "Evaluation Criteria" and review Bureau of Standards reports on Laser applications to metrology. (Two Principal Associates, 1 day each, Task II)

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[Redacted]

November 30, 1965

Log of Activities (Continued)

Monday, Nov. 22, 1965

Continue work on "Evaluation Criteria." (Principal Associate, 1/2 day, Task II)

Tuesday, November 23, 1965

Library search for technical data and review of interferometric principles for "Laser Metrology" by Principal Associate [Redacted] and Principal Associate [Redacted]

(Two Principal Associates, 15 hours, Task II)

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Friday, Nov. 26, 1965

Continue work on fundamentals of interferometric error sources as applied to Laser Metrology. (Principal Associate, 1 day, Task II)

Monday, Nov. 29, 1965

Preparation of reports. (Principal Associate, 1/2 day, Task I, 1/2 day, Task II)

Tuesday, Nov. 30, 1965

Preparation of reports. (Principal Associate, 1/2 day, Task II)

[Redacted]

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November 30, 1965



Monthly letter progress report, Contract

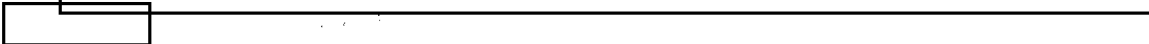


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Comments on Status

Task I - Item 1 "Special Investigations"

Two visitations were made this month at the request of the Technical Representative of the Contracting Officer to



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Task II - Item 1 "Submicron Measurement Error Analysis"

In reviewing the test data on floor vibration measurements conducted by Bureau of Standards in 1960, it became evident that a better presentation of the data would be desirable. In the October progress report it was suggested that a vibration power spectrum presentation of G^2 cps vs cps would be more useful. A brief literature review of the fundamental concept has reinforced our opinion that the vibration data should be presented as a power spectrum rather than isolated amplitude and frequency numbers. Further work on this item was deferred in favor of more urgent work on items 6 and 8.

Task II - Item 5 "Lamps for Rear Projection Viewers"

The technical data received on the new high pressure arc lamps under development show considerable promise for these lamps. If they prove to be truly applicable to rear projection viewers, it appears that a 400 watt lamp will do the same or better job than a 1000 watt tungsten lamp. Although analysis of the lamps was begun, completion was deferred in favor of more urgent work on items 6 and 8.

Task II - Item 6 "Evaluation Criteria"

A technical report on Item 6 was completed and final draft is being prepared for submission.

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November 30, 1965

Comments on Status (Continued)

Task II - Item 8 "Laser Metrology"

Fundamental work on item 8 was initiated and the data will be reviewed with the Technical Representative of the Contracting Officer. The technical report was blocked out but additional analytical work will be required before it can be completed.

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