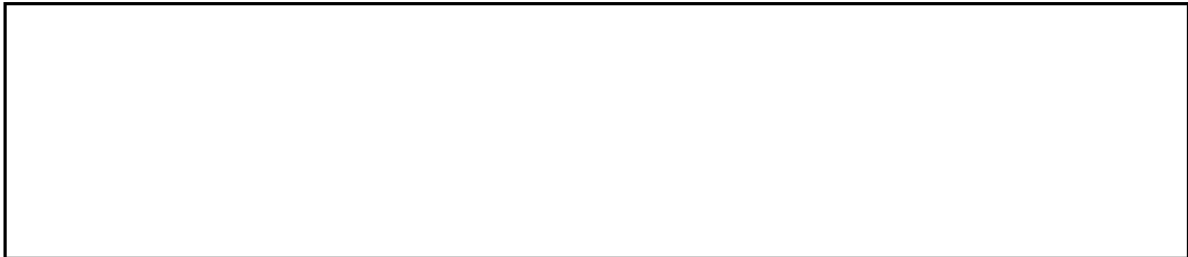


April 24, 1965

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LINEAR PHASOLVER MEASURING ENGINE



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There has been a considerable reorganization in the [redacted] have both left the company. The Linear Phasolver Program is now being handled by [redacted] [redacted] did the electronics design for the job and has worked on it since its inception but [redacted] is now. [redacted] is now deeply involved in the measurement phase now in process. They are proceeding with the test program which was written up in detail and submitted with Progress Report # 20. The seven tests planned were:

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- Test #1: G_c Determination
- Test #2: Accuracy, Resolution and Repeatability
- Test #3: Pattern Separation
- Test #4: Driver Coupled Output
- Test #5: Skew
- Test #6: Tilt
- Test #7: Gap

They have completed Test #1 and are now working on Test #2. Preliminary data indicates that measuring resolution is about 1/10 micron and measuring repeatability between 1/4 to 1/2 micron. The data is not yet firm and the figures may go up or down as they refine their procedures and take account of other variables. Electronic drift seems to be less than the 1/10 micron.

It is difficult to predict how fast the program will go since it is exploratory and they do not know what problems will be encountered. [redacted] estimated they will complete their testing in about a month. [redacted] advised them that he must have the data by May 1 for evaluation in order to meet his commitments on other programs. Since this is a critical phase of the program, I will plan to check in with them nearly every week for the next 6 weeks per request by [redacted]

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NGA Review Complete

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