

*FED*  
*10 MAR 1966*  
*99701K*

MONTHLY PROGRESS REPORT

U.S.G. [REDACTED]

[REDACTED] Enlarger Automatic Vacuum Projection Table

Reporting Period - January 1966

During this past period a vendor was located with a tape-controlled jig bore of sufficient capacity to handle the valve and top plates. The tapes were nearly completed by the end of the period and no machining problems were anticipated. The table casting was subcontracted for machining late in December and work is progressing towards a mid-February delivery to O.T.C. The remaining parts (i.e., valves, retainers and stand-offs) were 95% complete by the end of the period.

The final hole configuration in the top plate was added to the mock-up and demonstrated to the customer's representative.

Expected activity in February will be to assemble and test the full size vacuum table with delivery expected by the month's end.



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MONTHLY PROGRESS REPORT

U.S.G. [REDACTED]

[REDACTED] Enlarger Automatic Vacuum Projection Table

Reporting Period - Month of September 1965

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The drafting phase of the project was essentially completed during this period. Included in the drawings were the parts necessary to construct a mock-up of the proposed table. The table casting has been sent to outside vendors for quotation.

The mock-up was finished late in the reporting period and preliminary testing pointed out the need to seal together the top plate and the valve plate. Without this sealing there is an air leakage between the plates which allows by-passing of the individual valve chambers and precludes proper valve operation. As soon as this error is corrected the valve design can be evaluated and optimized.

Projected work for October is to complete the mock-up evaluation, demonstrate the mock-up performance to the customer's representative, order the table castings, and valve stampings, and start fabrication of the remaining components.

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The customer's representative was at [REDACTED] on September 28 to review progress.

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MONTHLY PROGRESS REPORT

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U.S.G. [REDACTED]

[REDACTED] Enlarger Automatic Vacuum Projection Table

Reporting Period - Month of August 1965

Formal design started on 12 August. A study was made to analyze the vacuum and air flow requirements and establish the mechanical parameters. In summary, the study shows that 2.5 psi vacuum will be about optimum and the required pump capacity at this vacuum is approximately 2-1/2 C.F.M. The three possible vacuum sources selected as a result of this study were evaluated on August 27 at [REDACTED] by the customer's representative and the [REDACTED] Project Engineer and one unit was selected as most acceptable by the customer's representative. During this period the design layout was completed and the table casting drawing started.

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Projected work for September is to complete the drafting effort, order the casting and stampings (valve) and start in-house fabrication of the table top and miscellaneous mounting parts.

A visit was made to the customer's facility on August 24 to make additional measurements on the [REDACTED] Enlarger. The customer's representative was at [REDACTED] on August 27 to review progress and perform the above mentioned test.

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