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603/4/5 - PROGRESS REPORT

Period Covered: September 1966

Document No.:

25X1

Dated: 26 October 1966

PRESENT STATUS

Declass Review by NIMA /  
DoD

604

Instrument is complete with the exception of a few very minor accessory items such as the bracket for mounting the "X" micrometer magnifier.

The problems associated with the film transport system have been resolved and a change has been made in the design of the transport motors which allows considerably improved high speed slew. Problems in obtaining required mensuration accuracies have been solved and the necessary changes incorporated.

605

This instrument is at the same stage as the 604 with the exception of some parts on the high intensity light source which are still being fabricated.

PROBLEM AREAS

603

As requested by the customer's technical representative, the film roller design has been changed to incorporate polished chrome plated ball bearing mounted rollers. These are currently being fabricated and will be installed at the customer's facility early in October. The customer's representative experi-

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enced a failure in the front film drive system [redacted] in-  
vestigated this at the customer's facility and replaced a burned  
out lamp in the optical differential assembly, which is used to  
measure displacements between the handwheel and the servo drive  
shaft.

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The problems reported last month have been resolved with the possible exception of the tendency of film to stick to the glass pressure platen during high speed slew. This problem does not appear to be severe except with unprocessed film. Since it appears to us that the instrument will be rarely, if ever, used to spool unprocessed film we feel this problem is of little practical significance.

605

As problems have presented themselves, and solutions found for the 604, these solutions were also applied to the 605. This should eliminate a great deal of the trouble shooting time to be required on the 605. However, since the design of the roller system cannot be changed on the 605, as it was on the 604, another solution must be found for the film tracking problem. We hope that the substitution of chrome plated rollers for the segmented nylon ones will in itself eliminate this problem.

PROJECTED WORK FOR OCTOBER

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New rollers will be installed by [redacted]  
personnel at the customer's facility.

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It is intended that the unit receive final inspection by [redacted] Quality Control Department and inspected by the customer's representative early in October.

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Unit will be completed, high intensity light source installed and the debugging phase started.

SUMMARY OF CORRESPONDENCE

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September 13, 1966 telephone conversation between [redacted] customer's representative [redacted] called in-  
dicating the 604 would not be ready for final inspection until at least September 20 because of problems with the film transport system and other last minute changes.

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September 15, 1966 telephone conversation between [redacted] customer's representative. Customer's representative reported problems on the 603. Front film transport was not working and he believed some components were overheating.

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Visit [redacted] to customer's facility September 16. [redacted] repaired the 603 front handwheel drive and inspected the machine carefully for evidence of overheating components. None were found and there was no evidence of abnormal performance after a number of hours of continuous operation.

Customer's representative indicated he felt more strongly about replacement of the nylon rollers with chrome plated ones to reduce noise during high speed film transport.

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September 23, 1966 telephone conversation between

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[redacted] customer's representative [redacted] called indicating the 604 was not yet ready for inspection because of accuracy problems, particularly in the "X" axis.

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Enclosure

Financial Report for the month of September.

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