

SECRET

[REDACTED]

Monthly Report

25X1

PAR 249

30 Sept 1968

SUBJECT: [REDACTED] Precision Enlarger Prototype (BPE) Operational
Improvements and Maintenance

25X1

TASK/PROBLEM

1. Provide photographic enlarger maintenance at the customer's facility for one [REDACTED] Precision Enlarger (BPE) and three 10-20-40X Enlargers.

25X1

DISCUSSION

2. Contractor personnel visited the customer's facility during the week of 9 September 1968. The purpose of the visit was to perform both the one-month and six-month preventive maintenance checks on the [REDACTED] Precision Enlarger. (See check list indicating the work performed.)

25X1

3. During the maintenance check, it was determined that some of the lens barrels were loose within the focus barrels. These were tightened and refocused; a complete photographic check was made to ensure that the instrument was in proper operating condition.

PLANNED ACTIVITY

4. Perform monthly preventive maintenance on the BPE and install carriage limit switches and vertical speed drive stop on this equipment.

5. Inspect the 10-20-40X enlargers and perform the monthly preventive maintenance check.

SECRET

**GROUP 1
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION**

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

| PRECISION ENLARGER

25X1

Assigned to: B-213 Date 9/9/68 Machine Serial No. 001

✓	Item	Description
---	------	-------------

Daily Interval

1		Check the four indicator lamps on the sub-control panel.
2.1		Check closed-negative-gate interlock.
2.2		Check interlock that causes vertical transport slow speed.
2.3		Check interlock that disables negative transport after fluid injection.
2.4		Check operation of microswitch that functions when manual-film-movement knob is pushed in.
3.1		Check the indicator lamps for the two attenuator banks of the easel photometer.
3.2		Check the meter scale illuminator lamp of the easel photometer.
3.3		Check the antifatigue lamp in photo-multiplier tube housing.
4		Clean the glass plates of the negative gate.

One-Week Interval

✓	1	Vacuum-clean the enlarger.
✓	2	Check, and if necessary, clean the objective lenses and all glass filters.
✓	3	Vacuum-clean the front surface of the easel.
✓	4	Check the fiber optics for broken fibers.

✓	Item	Description
---	------	-------------

One-Month Interval

✓	1	Wax the steel rails of the lens ramp and of the easel.
✓	2	Install new air filter in lamphouse.
✓	3	Clean the nylon brushes of the fluid removal system.
✓	4	Check all tubing and hoses for cracks and air leakage.
✓	5	Check and, if necessary, clean the lenses of the condenser lens assemblies.

Six-Month Interval

✓	1.1	Make a photographic check on all eight matching sets of objective and condenser lens assemblies.
✓	1.2	Be sure that film is tracking properly in both directions on the negative transport system.
✓	2	Check the timing belts of the film transport system, of the vertical drive system, and of the easel drive assembly for wear.

REMARKS: Repainted easel with flat white enamel; cleaned out holes.

NOTE: All lens barrels loose, out of calibration. Focus series run.

1. "B", "C", "G" checked O.K.

2. "A", "D", "E", "F", "H" recalibrated and rezeroed.

Checked by: _____ Date 9/10/68