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IPO/OSB/M-117-66
14 March 1966

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

SUBJECT : Poor Illuminance from Modified Tri Simplex Projectors

X1 1. The recently modified Tri Simplex Projectors have been used and the illuminated area at the base of the projector is very small. Prior to modification, the entire area within the U-shaped base was illuminated and all of the projected imagery could be clearly discerned and copied. Clearly projected and well illuminated imagery now occurs in only a 3-4 inch diameter area.

2. It is requested that the Plans and Development Staff investigate the cause of restricted projection and resolve this problem so that the image projected is equivalent to that prior to modification.

3. If it is necessary to experiment with one of these instruments, the PAG will provide one for your use.

4. Your earliest attention to this problem would be appreciated.



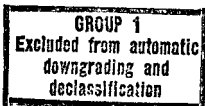
Colonel, USA
Assistant for Photographic Analysis, NPIC

Distribution:

- Orig & 1 - Addressee
- 1 - Asst. for PA
- 1 - IPO/PAG/OSB

Declass Review by NGA.

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1. Tri-Simplex Projector Modification

2. Replace the present support bar with a rack and pinion and add a small blower to the lamp housing.

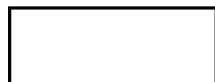
3. Machine Shop, Census Bureau

4. FOB # 3, Suitland Maryland

5.

6. Fixed Price

7. FY 1966



8. NA

9.

10. Aug - Oct 1965

11. AA Confidential

T. Unclassified

W. Unclassified

12. DDI/NPIC/P&DS



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13. The addition of the rack and pinion will provide a means of adjusting the magnification range between those settings established by the existing objectives.

14. Modification of existing equipment.

15. Miscellaneous Sub Cat NA

16. This project will provide a capability to the projector enabling it to be used for variable magnification for longer periods without damaging the film.

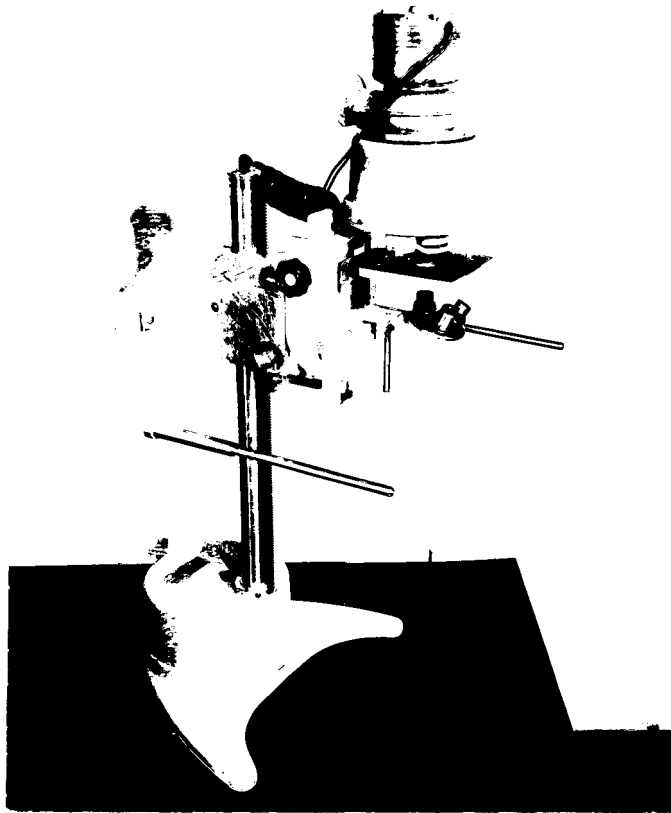
17. The Navy has previously had this item modified by Census and DIA is presently having some modified by the same facility.

18. After evaluating the Navy modifications, PID requested the modifications to their projectors with the exception of the roll film holder and the tilt top table. PAG concurred and requested modification of their five projectors.

The addition of the rack and pinion greatly increases the capability of the unit by allowing continuous adjustment of the magnification range.

The addition of the blower to the lamp housing keeps the temperature of the film at an acceptable

level and thus prevents the film from expanding or
being damaged during periods of extended use.



MODIFIED TRI-SIMPLEX PROJECTOR