STAT

31 January 1964

MEMORANDUM FOR THE RECORD

1. SUBJECT: PAR-210, Contract [redacted] "Lamination of Glass Slides". STAT

2. REFERENCES: a. [redacted] Quarterly Report, Contract [redacted] Second Quarter FY-64. STAT
b. Conference at P&DS 23 January 1964

3. ACTION REQUIRED: The development by [redacted] of an inexpensive technique or equipment for preventing buckling of Telepromter projection slides. STAT

4. ACTION TAKEN: The problem has been reviewed and found to still be a valid area for research development under [redacted] STAT

5. COORDINATION: Between [redacted] STAT of P&DS.

6. COPIES FURNISHED: [redacted]

Declass Review by NGA.

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See [redacted] in contract folder for information pertaining to PAR-210.

STAT

August 12, 1963

PAR 210 Summary

Glass Laminated Projection Slides

It is felt that improved projection slides for briefing use can be made by laminating the film to glass thereby eliminating certain current problems. We will also look at the projector for field modifications to increase slide cooling.

STAT

STAT [redacted]

VAK-210

7 August 1963

STAT [redacted]

Dear Frank:

In our discussion on 17 July about slide heating in your large projector I mentioned a technique for lamination of a film on to a single glass plate. I find upon asking questions here that this has been successful only with the relatively soft color film emulsions. The harder black and white emulsions are not softened sufficiently by water to adhere to the glass plate.

STAT [redacted] observed a process several years ago in which a gelatin softening agent was used for successful lamination of B & W film. We are submitting a Project Authorization Request

STAT to [redacted] to re-explore this process and to provide a small lamination roller unit for your use if it appears successful.

We expect to explore both emulsion out and emulsion in lamination of the film. The emulsion out situation will leave the emulsion vulnerable to scratches. However, your slides appear to be reasonably well protected in the metal carriers and the silver layer in which the heat is collected from the projector beam is available for efficient cooling. Our hope in that with efficient cooling the gelatin temperature can be held below the range which causes it to shrink.

RP:bll

STAT [redacted]

cc: [redacted]