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In reply refer to:  
[REDACTED]

3 December 1964

To: D. Schoessler

From: [REDACTED]

Subject: MISSION 1013 EXCESSIVE SPLICE ADHESIVE

### INTRODUCTION

The first Eastman Kodak splice thru the aft looking camera during Mission 1013-1 created an out of focus condition that caused soft, low definition terrain imagery to be generated. The splice was located in frame 90 of pass D-24. Occasionally a sharp frame of photography was generated at infrequent random intervals.

### SUMMARY: Observed Film Anomalies

Aft camera terrain photography was consistently sharp prior to the time the first Eastman Kodak splice passed thru the platen of instrument 159 during pass 24, frame 90. Beginning with frame 90 and immediately thereafter, aft camera photography became soft with low definition over 50 to 60% of each format area for approximately 400 consecutive photographs where weather permitted detailed evaluation.

Figure No. 1 shows the general character of photography before, during, and after passage of the first Eastman Kodak splice thru the aft looking camera.

Approximately 50 frames of aft camera photography were sharp at random intervals after passage of the subject splice out of approximately 800 frames. The balance of 750 frames contained either soft areas and/or were covered by weather and could not be accurately evaluated for ground detail.

Measurements show that at the time the splice entered the aft camera platen area, the film shifted laterally toward the rail on the timing track

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side of the format by about 0.012 inches. Subsequent measurements made at random intervals from pass D-24 to D-47 indicate that the film path generally continued to be laterally displaced toward the timing track rail and never fully recovered.

An abnormally large quantity of adhesive appeared to be present at the edges of the Eastman Kodak splice. Additional adhesive appeared to have transferred to the original negative 75 and 120 inches ahead of the splice. It is concluded that the adhesive was transferred to the original negative at Eastman Kodak prior to flight during splicing and spooling operations. The adhesive 75 inches ahead of the splice corresponds to one film wrap on the supply spool and is accompanied by static marks that outline the dimensions of the splice. The adhesive 120 inches ahead of the splice partially fills the voids observed in the adhesive layer at the splice.

Some of the adhesive is unaccounted for.

It can be speculated that some of the excessive adhesive transferred to a part of the aft camera film transport and exposure mechanism, which cause film mis-tracking and soft low definition.

It is requested that you take the necessary action to prevent the re-occurrence of the subject problem in the future.

  
Manager  
Advanced Projects

  
  


# MISSION 1013-1

FIGURE NO. 1: AFT LOOKING CAMERA: PHOTOGRAPHIC DEFINITION VS E.K. CO. SPLICE PASSAGE.  
PASS 24

