

CORONA

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14 November 1969

MEMORANDUM FOR: Director of Special Projects

SUBJECT: Photo Reconnaissance Systems Report No. 14

I. CORONA

A. Accomplishments

1. CR-10 instrument #320 stopped during transport in the HIVOS chamber at a silver mylar manufacturing splice. The failsafe mode was activated by the splice hang-up and instrument power automatically shut off. When the splice came off the supply during operation, pieces of emulsion from the succeeding wrap stuck to the emulsion side of the splice due to adhesive bleeding. As the splice transported over the exit roller at the end of the platen, hang-up occurred on the platen extension plate, evidenced by a piece of splice jammed in that vicinity. As a result of this failure, Eastman-Kodak was directed to use only permacel splices on all future film loads. It should be noted that the silver mylar splice has a history of adhesive bleeding, whereas no adhesive bleeding has been experienced with permacel splices.

2. The CORONA Program managers meeting was held on 13 November at the A/P.

B. Problems

1. Constant tension assembly tests are continuing on CR-11 using CR-9's supply cassette.

2. Since there was corona marking on the 3404 film on the aft looking instrument, a second HIVOS test for CR-10 is planned for early 1970, in time to meet R-15 status for CR-11 flight. Decision to postpone

Declassified and released by the NRO

In Accordance with E. O. 12958

on NOV 26 1997

GROUP 1
Excluded from automatic
downgrading and
declassification

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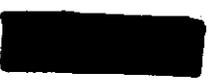
re-HIVOS and to keep CR-10 at R-15 status through December 1970 was predicated on an examination of possible PMU flight failure modes which revealed only a slight risk. With normal PMU operation (50-60 microns), no corona would be expected. With complete PMU failure, the pressure level is expected to be below the pressure level range during which corona was experienced in HIVOS. Mechanically and electrically the system has no known problems.

3. Evaluation of out-of-spec T/U flanges is continuing.

C. Projected Status

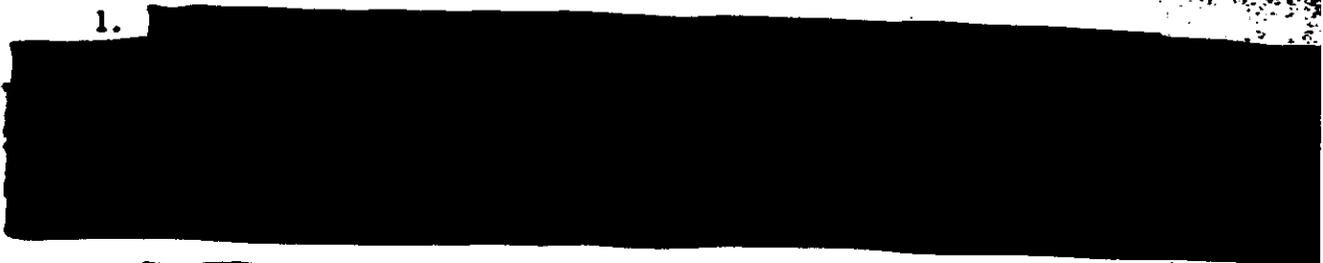
1. CR-9. Flight Preps.
2. CR-10. Block Preps.
3. CR-11. Retracking.
4. CR-12. Tracking.
5. CR-13. Acceptance Testing.

II.

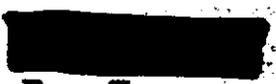


A. General

- 1.



- 2.



*****NOTICE OF REMOVED PAGES*****

Pages 3 through 6 are not provided because their full text does not contain CORONA, ARGON, LANYARD programmatic information.