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28 August 1970

**MEMORANDUM FOR: Director of Special Projects**

**SUBJECT : Photo Reconnaissance Systems Report No. 55**

**I. CORONA**

**A. Accomplishments**

1. The PET Team met at NPIC on 25 and 26 August to evaluate Mission 1111. The PEIR twx has been prepared. In summary, NPIC reported that the PI suitability for Mission 1111 ranged from good to poor with the larger portion in the good to fair category. NPIC stated that the image quality variability was attributable to the variations in acquisition altitude (88 nm to 147 nm) and to adverse weather conditions (cloud cover approximately 30%). The PET concurred with the NPIC comments and noted that Mission 1111, except for weather and altitude variations, produced the most consistently fine imagery of any CORONA system flown. A major contributor to the fine performance of this system was that the focus was extremely crisp on both cameras throughout the Mission. Clear weather imagery held together well at 100X magnification and CORN target readings were magnification limited at 100X by available increments of the light table microscopes. The MIP's of 105 assigned to both 1111-1 and 1111-2 were considered extremely good for the acquisition altitudes. An NPIC comparison of camera system resolution based on CORN analysis showed that Mission 1111 was equal to or superior, in achieved on-orbit resolution, to Mission 1104 and 1106. Those are the only two Missions which have achieved higher MIP's. The mean level on-orbit resolution of both forward and aft cameras was estimated at near the peak level of this system's (CR-12) capability (120 - 160 l/mm).

Declassified and Released by the NRO

In Accordance with E. O. 12958

on NOV 26 1997

GROUP 1  
Excluded from automatic  
downgrading and  
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2. The Dual Data Signal Conditioner (DDSC) mods are continuing. Four have been completed and the remaining units should be accomplished during the next reporting period.

3. DISIC/PMU mods are in progress.

4. Collimator block preparations are in final phases. Consoles are being installed and preliminary checkout of the block is in progress. Expected completion date is 1 September 1970.

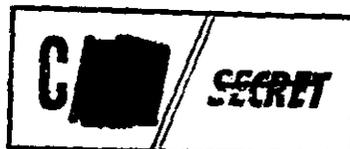
**B. Future Activities**

Next flight date is scheduled for 18 November 1970.

**C. Projected Status**

1. CR-13. Block preps.
2. QR-2. Backup preps - holding.
3. CR-14. Storage preps.
4. CR-15. Functional preps.
5. CR-16. Receiving inspection.
6. CR-8. Still at Itak to negate corona discharge on one camera. Optimistic ship date is 4 September.

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

**Pages 3 through 9 are not provided because their full text does not contain CORONA, ARGON, LANYARD programmatic information.**