

DATE 0027Z 29 MAY 64

~~SECRET~~

TO DIRECTOR

FROM [REDACTED]

SUBJECT: [REDACTED]

INFO:

ROUTINE

B/C 1400022817

Declassified and Released by the NRC

In Accordance with E. O. 12958

ON NOV 26 1997

TOR: 0145Z 29 MAY 64

TO [REDACTED]

INFO [REDACTED]

CITE [REDACTED]

CORCNA

A PLAN IS REQUIRED TO COLLECT AND ANALYZE SPECIFIC DATA ON THE CORCNA SYSTEM AND ITS PRODUCT, TO ISOLATE THE PROBABLE CONTRIBUTORS TO THE PERFORMANCE SPREAD. BOTH LABORATORY AND FLIGHT TESTS WILL BE REQUIRED, HOWEVER ORBITAL DATA COLLECTION WILL BE ACCOMPLISHED ONLY AS INDICATED BY THE LABORATORY TEST DATA AND APPROVED BY THE (S) DNRC. THE STUDIES CONDUCTED DURING THE PAST MONTH PERTAINING TO TEST TARGET CONTRAST, TARGET READER CALIBRATION, AND STANDARDIZATION OF TEST PROCEDURES ARE EXPECTED TO ESTABLISH A HIGH DEGREE OF CONFIDENCE IN THE LABORATORY PHOTO TEST BASELINE. THIS TOGETHER WITH RECENT ADVANCES IN FLIGHT EVALUATION TECHNIQUES WILL MAKE THE SEARCH FOR DEGRADING FACTORS MORE MEANINGFUL. SPECIFIC TASKS TO BE ACCOMPLISHED INCLUDE THE FOLLOWING:

1. FLIGHT LEAKS-MEASUREMENTS NECESSARY BY ITEK TO DETERMINE GENERAL LIGHT LEAKS AND CORRELATION WITH ACTUAL MATERIAL. IT MUST ALSO BE ESTABLISHED WHETHER OR NOT VEILING GLARE IN THE

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GROUP 1
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[REDACTED]
[REDACTED]
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OPTICAL SYSTEM IS CONTRIBUTING SIGNIFICANTLY TO CONTRAST REDUCTION.

2. FOCUS - ITEK TO DETERMINE SENSITIVITY OF TITANIUM/INVAR AND FOUR ROLLER SCAN HEAD CONFIGURATION.

3. SOFT SPOTS - ITEK TO CONDUCT A SERIES OF DR. A. TESTS OVER THE RANGE OF TEMPERATURES AND GRADIENTS EXPERIENCED IN FLIGHT. LMSC TO DETERMINE DEFORMATIONS RESULTING FROM CAMERA MOUNTING PROCEDURES AND CONDUCT A SERIES OF DR. A. TESTS JUST PRIOR TO SHIPPING THE INSTRUMENTS TO BASE FOR LAUNCH.

4. THERMAL - ITEK AND LMSC COMPLETE THE ANALYTICAL MODELS OF CAMERA AND COMPLETE SYSTEM AND VERIFY BY FLIGHT EXPERIENCE. ITEK TO MAKE A LENS ONLY AND COMPLETE CAMERA TEST AT REALISTIC TEMPERATURE LEVELS AND GRADIENTS.

5. VIBRATION - ITEK IS TO DETERMINE SENSITIVITY AND EXTENT OF THE CAMERA/FILM TO VIBRATION INCLUDING FILM VIBRATION INDUCED DURING EXPOSURE BY PASSAGE OF ROLLERS.

REQUEST DEFINITIVE PROPOSALS TO ACCOMPLISH THESE TASKS BE PREPARED. THESE PROPOSALS SHOULD INCLUDE A DETAILED DESCRIPTION OF THE WORK WHICH WILL BE ACCOMPLISHED, THE FORM IN WHICH THE RESULTS WILL BE PRESENTED AND THE COST AND SCHEDULE TO COMPLETE THE EFFORT. PROPOSALS ARE DESIRED AS SOON AS PRACTICABLE. BOTH COMPANIES WILL BE VISITED BY [REDACTED] PERSONNEL DURING THE FIRST WEEK IN JUNE TO FURTHER DISCUSS THE ABOVE ITEMS AND SCHEDULES. FOR THE PRESENT IT WILL BE ASSUMED THAT 15 JUNE IS A REASONABLE DATE TO EXPECT THE PROPOSALS FOR REVIEW AT [REDACTED]

END OF MESSAGE