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12 SEP 1966

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CORONA

REF: [REDACTED]

1. THE CORONA RESIDENT OFFICE PLANS A DETAILED REVIEW OF THE PAN GEOMETRY (PG) STUDIES DURING THE PAYLOAD INFORMATION MEETING (PIM) SCHEDULED AT [REDACTED] ON 3 OCTOBER 1966. ITEMS TO BE COVERED INCLUDE PG CALIBRATION, PG-1 CHARACTERISTICS INCLUDING FLIGHT RESULTS ON 1035 IF AVAILABLE, DIFFERENCES AMONG PG PAYLOADS, PG INSTRUMENT SCHEDULES, AND DISCUSSION OF PG SYSTEM'S ABILITY TO MEET USER NEEDS. SUFFICIENT TIME WILL BE ALLOWED ON PIM AGENDA FOR THIS REVIEW.

2. GOOD LENSES ARE NOW AVAILABLE AT [REDACTED] FOR PG'S 7 AND 8. AUTHORIZATION TO DELIVER AS PG SYSTEM HAS BEEN GRANTED. RESERVATION TO CONVERT, IF NECESSARY, IS INCLUDED IN THE GO-AHEAD. DECISION TO PROCEED WITH PG-9 WILL BE MADE WHEN LENSES ARE AVAILABLE.

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Declassified and Released by the NRO

In Accordance with E.O. 12958
on NOV 26 1997

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TWO OF THE FIVE LENSES IN WORK SHOULD BE SATISFACTORY.

3. PLANNING IS NOW FIRM FOR SIX PG FLIGHTS -- PG-1, 2, 3, AND PG'S 7, 8 AND 9. PG-4 WAS CONVERTED MONTHS AGO AND PG'S 5 AND 6 ^{AVAILABILITY} ~~XXXXXXXXXX~~ WERE ORDERED DELIVERED AS J-1'S WHEN ~~XXXXXXXXXX~~ OF GOOD LENSES THREATENED DELIVERY SCHEDULE. PRICE FOR CALIBRATION HAS FIRMED UP AT APPROXIMATELY XXXXXXXXXX FOR PG'S 7, 8, AND 9 INCLUSIVE.

4. PROBLEM REPORT ON EARLY PG'S:

PG-1 - (1) DIFFICULTY OF OBTAINING ACCEPTABLE RAIL HOLE IMAGES. CORRECTED BY SCAN HEAD LAMP INSTALLATION PROCEDURES.

(2) INTERRUPTED SCAN TRACES AT FIRST FOUR INCHES OF FORMAT. USER HAS INDICATED ACCEPTABILITY FOR THE FLIGHT.

(3) FILM LEFT OUT OF TOLERANCE (WAS 0.022, MAXIMUM ALLOWABLE IS 0.019). CORRECTED BY REWORKING RING FLATNESS AND BY SHIMS TO 0.012.

(4) CALIBRATION MATERIAL DID NOT REVEAL INFLECTION POINT.

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CALIBRATION TECHNIQUE CHANGED SO AS NOT TO REQUIRE AN INFLECTION POINT.

PG-2 PROBLEMS: (1) SCAN TRACE DISPLACEMENT AS A FUNCTION OF TEMPERATURE. CORRECTED BY REDESIGN OF LENS COLLIMATOR PRISM MOUNT MAKING IT MORE RIGID.

(2) REPEATABILITY. NEW CALIBRATION TECHNIQUE USED ON PG-2 MATERIAL SHOWS ABILITY TO MEASURE TO ABOUT 10-15 MICRONS REPEATABLE. CONSIDER THE TECHNIQUE SATISFACTORY AND PLAN TO USE IT ON PG'S 3, 7, 8, AND 9.

SUMMARY: PROBLEMS APPEAR TO BE SOLVED ON PG'S 1 AND 2 AND SOLUTION APPLICABLE TO PG'S 3, 7, 8 AND 9. QUESTION OF SUITABLE PETZVAL LENS FOR PG-9 PERSISTS. FIRM PRICE FOR CALIBRATION HAS BEEN OBTAINED. DURING YOUR SCHEDULED NOVEMBER REVIEW BOTH FISCAL AND TECHNICAL STATUS WILL BE PRESENTED IN DETAIL. BELIEVE PROGRAM IS NOW IN CONTROL.

END OF MESSAGE

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