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FILE INFO

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INFO

CORONA

FROM PRS/WCPO

REF A

B

C

SUBJ: MISSION 1112 FLIGHT ANOMALIES ON FWD-LOOKING CAMERA

TWO MAJOR ANOMALIES OCCURRED ON THE FWD-LOOKING CAMERA DURING MISSION 1112. REFS A AND B PERTAIN. THE FOLLOWING ANALYSIS HAS BEEN MADE AND IS BASED ON ALL AVAILABLE DATA.

1. A 0.007 INCH WIDE GOUGE ON THE BACKING SIDE OF THE FILM WAS OBSERVED. THE GOUGE WAS LOCATED 0.8 INCH IN FROM THE TIME TRACK EDGE AND WAS CONTINUOUS FROM FRAME 62 OF PASS D005 THROUGH FRAME 1 OF PASS D035. THE GOUGE WAS PRECEDED BY 95 FRAMES OF A0.1 INCH TRI-

Declassified and Released by the N R C

In Accordance with E. O. 12958

NOV 26 1997

on

CLASSIFIED MESSAGE

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CR Paper ANGULAR PRESSURE MARK OCCURRING ON A 6.25 INCH SPACING.

FOLLOWING THE END OF THE GOUGE ON DB35 A SERIES OF MINOR BASE RUBS WERE OBSERVED TO THE END OF -1 MISSION. THE GOUGE RESULTED IN PHYSICAL DAMAGE TO FILM BACKING PRESSURE MARKING OF IMAGERY AND A LOOSE WRAP OF THE TAKE-UP.

THE MOST LIKELY CAUSE OF THE GOUGE WAS A PARTICLE OF VERY HARD MATERIAL WHICH BECAME LODGED IN THE RUBBER INPUT METERING ROLLER CAUSING THE PERIODIC MARKING FIRST OBSERVED. THE PARTICLE BECAME DISLODGED AND WAS CARRIED BY THE FILM UNTIL IT WEDGED IN A RESTRICTED PASSAGE SUCH AS A ROLLER GUIDE. THE WEDGE PARTICLE THEN CAUSED THE CONTINUOUS GOUGE UNTIL A REORIENTATION OF THE PARTICLE CAUSED THE MINOR BASE RUB TO OCCUR IN THE REMAINING -1 MISSION. DETERMINATION OF MATERIAL AND SOURCE OF THE PARTICLE WAS NOT POSSIBLE.

2. A COMPLETE FAILURE OF THE FILM TRANSPORT OCCURRED DURING -1 MISSION TO -2 MISSION TRANSFER SEQUENCE. THE CUT, CINCH AND START OF WRAP WERE NORMAL. JUST PRIOR TO THE END OF THE FIRST FRAME METERING CYCLE THE FRAME (OUTPUT) METERING ROLLER SLOWED TO A PREMATURE STOP WITH INDICATIONS OF DRAG OR BINDING IN THE UNIT. FRAME METERING DRIVE THEN APPARENTLY FAILED AND UNIT SUBSEQUENTLY STALLED DUE TO FILM WRAP-UP ON THE INPUT METERING ROLLER. THE MOST PROBABLE CAUSE OF THE FAILURE WAS A MECHANICAL BINDING OR JAMMING IN THE

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CR Paper FRAME METERING/STAR WHEEL DRIVE ASSEMBLY.

3. A COMMON CAUSE FOR THE TWO ANOMALIES COULD NOT BE VERIFIED. POSSIBILITY EXISTS THAT A LOOSE PARTICLE OR PARTICLES COULD RESULT IN BOTH ANOMALIES.

4. THE DISIC ANOMALY (REF C) WILL BE REPORTED LATER.

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BT