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PRICPITY INFO PRIORITY	
AND THE PROPERTY OF THE PROPER	
CORGUA/RESIDENT OFFICE	
ATTN:	
SUEJE J-49 FORWARD CAMERA FAILURE	
. THE FOLLOWING INFORMATION IS A SUMMARY OF DATA PRESENTLY	
AVAILABLE. NHOWN FACTS ONLY ARE STATED. ENTERPRETATION	
CF TUF BATA TO ACRIVE AT A DORD TO	
The state of the s	
POWEVER, NO CONCLUSIONS ARE EXPRESSED AT THIS TIME PENDI	3.00
DETAILED AMALYSIS OF THE FILM TO EXTRACT POSSIBLE ADDITE	ORAL
DATA WHICH WAY BE AVAILABLE FROM THAT SOURCE.	
FOUNCES OND DATA PACTS ARE AS FOLLOWS!	
A. FLIGHT TIM DATA	
1. T/M COMMUTATOR (STATUS DATA) FAILED TO START OR	
REV. 175 THRU REV. 278. STARTED ON REV 224 AFTER	
MAIR WATER SEAL CLOSES.	
C. FEV. 182 INDICATED A CONTINUOUS ELECTRICAL LOAD	
OF 1.2 AMPS REGULATED POVER AND 3.5 AMPS UNREG	
POLEP. ELECTRICAL LOAD WAS EQUIVALENT TO A SINGLE	
CARERA OPERATING.	
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Declassified and Released by the N R C

In Accordance with E. O. 12958

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- PAYLOAD SYSTEM. FORWARD CAMERA UNIT INPUT METERING
 CONTROL WAS IN 99 PERCENT SHOWING SHUTTLE HAD BEEN ON OUTPUT
 SIDE AT LAST CONTROL CHANGE.
- VERIFIED FORWARD UNIT HAD FAILED. THE LENS DRIVE LINKAGE AND THE METER/CONTROL LINKAGE WERE POTH INOPERATIVE. S/I UNIT WAS NOT CYCLING. S/I CONTROL AND FOWER LOAD INDICATED THE INTERNAL OPERATE COMMAND FOR THE FORWARD UNIT WAS ENERGIZED OUT FAILURE OF CONTROL! LINKAGE PREVENTED UNIT FROM SHUT DOWN.
- AND REV. 231 VERIFIED THE FORWARD UNIT DRIVE MOTOR AND TACH WERE OPERATING AND APPEARED NORMAL. SYSTEM TEMPERATURES WERE NORMAL. CYCLE COUNTER ON FORWARD UNIT INDICATED THE CONTROL LINKAGE FAD STOPPED AFTER THE "CENTER-OF-FORMAT" COMMAND ON THE 71ST FRAME ON REV 181. TWO OPERATIONS WERE PROGRAMMED FOR REV 181, THE FIRST WAS 46 FRAMES AND THE SECOND WAS 49 FRAMES FOR A TOTAL OF 94 FRAMES.
- I. FILM ANALYSIS DATA

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- 1. TAIL OF FORWARD UNIT FILM WAS TORN (NOT CUT) AND CONTAINED APPROXIMATELY 6 INCHES OF THE FORMAT FROM FRAME 76

 OF REV 181.
- 2. BINARY TIME FROM FRAMES 58 THRU 68 ON REV 181
 SHOWED A CONSISTENT CYCLE PERIOD OF 2.290 SECONDS.
 THE CYCLE PERIOD BETWEEN FRAMES 68 AND 69 CHANGED TO
 2.230 SECONDS OR A RATE INCREASE OF 2.8 PERCENT.
- 3. FAIL OUTLINES ON THE PARTIAL 70TH FRAME OF REV 181
 INDICATES THE FILM IN IN-THE-RAILS AT THE TIME OF
 EXPOSURE.
- 4. LACT 43 FEET OF FILM FROM FORWARD UNIT WAS DAMAGED.
- 5. FILM SPLICE WAS LOCATED 402 FEET PRIOR TO TORN END OF FORWARD UNIT FILM.
- 6. AFT UNIT FILM SUPPLY WAS DEPLETED ON FRAME 20 OF A 92 CYCLE OPERATION ON REV 216.
- J. RECOVERED TAKE-UP ABNORMALITY
 - IN S/I TAKE-UP/PUCK-ARM ASSEMBLY. LOOPS OF FILM
 AROUND BOTH TAKE-UP SPOOLS.
 - 2. BOTH TAKE-UPS JAMMED.

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3. ALL RESISTANCE CHECK ON THE CAPSULE WERE NORMAL.

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- 4. VERIFIED BRAKE RELEASE AND TAKE-UP MOTION WAS NORMAL ON BOTH UNITS.
- 5. AFT UNIT WRAPS FELT SHUG EXCEPT FOR TOP FEW WRAPS.
- FORWARD UNIT WRAPS FELT SOFT AND LOOPS OF FILM PROJECTING TRANSVERSELY FROM UNDER OUTER WRAPS.
- 7. S/I TAKE-UPS WERE OFF-SPOOLED.
- B. AFT FILM WAS CUT AT A POINT FARTHEREST FROM SMOOTH WRAP.
- 9. MAJORITY OF AFT FILM WAS THEN REMOVED FROM TAKE-UP SPOOL AND PROCESSED IN NORMAL MANNER.
- 18. FORWARD UNIT TAKE-UP SPOOL REMAINED JAMMED.
- 11. PUCK-ARM ASSEMBLY WAS REMOVED BUT REQUIRED

 FILM TO BE UNTANGLED FROM AROUND THE FORWARD UNIT

 PUCK-ARM.
- 12. FOUND TAIL END OF AFT UNIT FILM AND HAND OFF-SPOOLED
 BACK TO CUT (REF. PARA C8 ABOVE). THIS SEGMENT OF FILM
 MEASURED 89 FEET.
- 13. TORN END OF FORWARD UNIT FILM WAS THEN FOUND WITH 3 TO 4 FEET OF UNSPOOLED FILM.

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- A SOFT, IRREGULAR WRAP WAS NOTED. FORTY-THREE FEET OF DAMAGED FILM WAS OFF SPOOLED BEFORE THE TAKE-UP WRAP FELT ACCEPTABLE. THIS DAMAGED SEGMENT WAS CUT AND REMOVE.
- 15. NORMAL DEFILMING WAS THEN UTILIZED FOR THE REMAINING FORWARD FILM.
- DISTORTIONS ALONG THE SIDE WHICH THE PUCK-ARM TRAVELLED.

 ALSO THE LAST 3 TO 4 FEET OF THE FILM CONTAINED A VARIETY

 OF CREASES.
- 17. INSPECTION OF THE EMPTY CAPSULE REVEALED:
 - A. NO TORN OR LOOSE PIECES OF FILM
 - B. SCORING OF THE FORWARD UNIT SPOOL FLANGE BY
 THE FUCK-ARM.
 - C. FORWARD UNIT PUCK-ARM WAS BENT, HOWEVER, SOME
 OF THE BENDING MAY HAVE OCCURRED WHILE ATTEMPTING
 UNIANGLE OF THE FILM.

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