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S E C R E T 110201Z DEC 68 CITE [ ] 5222

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SUBJECT: EVALUATION OF GLASS LAMP MISSION G-055.

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY OF THIS MISSION IS POOR. AREAS OF GOOD IMAGERY ARE PRESENT IN THE MISSION, HOWEVER, MOST OF THE IMAGERY APPEARS OUT OF FOCUS (SEE IMAGED DEGRADATIONS, PARA C.). THE INTERPRETATION SUITABILITY OF THIS MISSION IS POOR. CLOUD COVER AND HAZE OBSCURE APPROXIMATELY 30 PERCENT OF THE MISSION.

2. MISSION DATA:

A. MISSION G-055 WAS FLOWN ON 5 DECEMBER 1968. DELTA III CAMERA WITH UNITS 17 (AFT-LOOKING) AND 18 (FWD LOOKING) WAS UTILIZED.

B. FILM TYPE 3404 WAS USED THROUGHOUT THE MISSION WITH A WRITTEN 21 FILTER. PROCESSING WAS ACCOMPLISHED BY NAV RECON TECH SUPPCEN. THE MATERIAL WAS PROCESSED TO AN AVERAGE GAMMA OF 2.87 ON THE AFT AND 2.92 ON THE FWD.

3. ORIGINAL NEGATIVES:

A. EXPOSURE: ADEQUATE THROUGHOUT FOR BOTH UNITS.

B. DENSITY AND CONTRAST: GENERALLY MEDIUM FOR BOTH UNITS DURING THE ENTIRE MISSION.

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C. IMAGE DEGRADATIONS:

(1) FWD CAMERA (18): A PLUS DENSITY STREAK IS PRESENT INTERMITTENTLY ALONG THE FORMAT EDGE ON THE NON-TITLED SIDE OF THE FRAME THROUGHOUT THE MISSION. AN OUT-OF-FOCUS CONDITION DEGRADES THE IMAGERY OF EACH FRAME UP TO 1.0 INCH (IN WIDTH) FROM THE TITLED EDGE AND 1.8 INCHES FROM THE NON-TITLED EDGE. THE OUT-OF-FOCUS AREAS VARY IN SIZE FROM FRAME TO FRAME AND ARE ALWAYS MORE SEVERE AT THE START OF SCAN. BANDING IS PRESENT AT THE BEGINNING OF SCAN FOR EACH FRAME.

(2) AFT CAMERA (17): THE FOG PATTERN WHICH HAS BEEN AFFECTING TWO-THIRDS OF THE FILM WEB FOR PORTIONS OF THE LAST THREE MISSIONS (DELTA III TESTS 1 AND 2; GLASS LAMP G-052) IS PRESENT IN FRAMES 16 THRU 50 AND 162 THRU 227. FRAMES 2 (THE FIRST TITLED FRAME) THRU 8 CONTAIN FOG ASSOCIATED WITH A LIGHT LEAK. THE LAST FIVE FRAMES OF THE MISSION (1111 THRU 1115) CONTAIN FOG ASSOCIATED WITH CAMERA SHUTDOWN. TWO MINUS DENSITY LINES PARALLEL TO THE MAJOR AXIS OF THE FILM AND LOCATED 0.4 INCH AND 0.6 INCH FROM THE NON-TITLED EDGE ARE THROUGHOUT THE MISSION. BANDING IS

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PRESENT IN THE FIRST 2.0 INCHES OF SCAN IN EACH FRAME. THE SECONDARY IMAGES ASSOCIATED WITH HIGHLY REFLECTIVE OBJECTS ARE PRESENT THROUGHOUT THE MISSION. ERRATIC METERING IS PRESENT THROUGHOUT THE MISSION. APPARENTLY THE INSTRUMENT DID NOT METER SUFFICIENT MATERIAL INTO THE EXPOSURE AREA CAUSING A 0.05 INCH OVERLAP OF EACH FRAME UP TO FRAME 591. AT THIS POINT THE FILM CAME OUT OF THE RAILS. THE MATERIAL FROM THIS POINT ON IS SERIOUSLY DEGRADED BY HEAVY EMULSION SCRATCHES, GOUGES AND CRIMP MARKS. IN ADDITION APPROXIMATELY THE LAST EIGHT INCHES OF SCAN DISPLAYS GROSSLY SMEARED IMAGERY WITH THE REMAINDER OF THE FRAME BEING OUT-AOF-FOCUS IN VARYING DEGREES.

D. PHYSICAL DEGRADATIONS:

(1) FWD CAMERA (18): RAIL SCRATCHES ARE PRESENT ALONG BOTH EDGES OF THE FILM. THE MISSION MATERIAL CONTAINS THREE HEAT SPLICES.

(2) AFT CAMERA (17): RAIL SCRATCHES ARE PRESENT ALONG

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WITH TEXT 25X1

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Excluded from automatic  
downgrading and  
declassification

GROUP 1  
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SECRET

2.

BOTH EDGES OF THE FILM. THE MISSION MATERIAL CONTAINS THREE  
HEAT SPLICES. SCRATCHES, CREASES AND CRIMP MARKS ASSOCIATED  
WITH THE CAMERA MALFUNCTION ARE PRESENT IN FRAMES 591 THRU  
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E. AUXILIARY DATA: THE FREQUENCY MARKS AND TIME WORDS WERE  
NOT IMAGED ON EITHER CAMERA RECORD. THE FRAME COUNTER AND SERIAL  
NUMBER FUNCTIONED PROPERLY.

F. OTHER: THE MATERIAL WAS TITLED BY THE PROCESSING FACILITY  
SO THAT TITLED FRAME NUMBERS AND EVENTS COUNTER NUMBERS CORRESPOND  
FOR THE TWO UNITS.

4. POSITIVES:

A. PRINTING AND PROCESSING ARE GOOD.

B. NRTSC PRINTED THE DUPES ON FIVE INCH STOCK BECAUSE THEIR  
SUPPLY OF 70MM DUPE STOCK WAS EXHAUSTED.

S E C R E T

END OF MSG