

SECRET

OUT 66505

P 031816Z DEC 68
 FM NPIC WASHDC
 TO RHCOAAA/SAC OFFUTT AFB OMAHA NEB
 RHCOAAA/544TH ARTW OFFUTT AFB OMAHA NEB
 RUCLEGA/100TH SRW OL 19 MCCOY AFB FLA
 RUWJDBA/100TH SRW DAVIS MONTHAN AFB ARIZ
 RUEBJRA/NAVRECONTECHSUPPCEN SUITLAND MD
 RUEAIIA/CIA WASH DC
 RUEOJFA/DIA
 RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF
 RUEFHQA/HQS USAF
 BT

3 Dec 68 18 52z

S E C R E T CITE NPIC 5152.
 SAC FOR DIR, DOSR, DISD; 15TH AF FOR DI. DO; 100TH SRW FOR
 CO, DCOI; HQ USAF FOR AFRDR DIA FOR DIAXX-2.
 FROM NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER.

25X1

SUBJECT: EVALUATION OF GLASS LAMP MISSION G-052

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY OF THIS MISSION IS
 FAIR. INTERMITTENT SMALL OUT-OF-FOCUS AREAS ARE PRESENT IN APPROX
 IMATELY THE FIRST 600 FRAMES OF THE FORWARD AND AFT MATERIALS.

DISTRIBUTION		
CY	OFFICE	PI
	FILE	1
	CABLE SEC.	2
	PP&B/RD	
	SECUR.	
3,4	TSSG/ABD	✓
	FSG/OC	
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20	CEPRO	
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	DISC	
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	DISC	
	UNITS A-B	
	UNITS	25X1

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 GRADUAL CHANGE IN IMAGE QUALITY IS APPARENT FROM THE BEGINNING OF
 THE MISSION TO THE END (FAIR TO GOOD). INTERPRETATION SUITABILITY
 THIS MISSION IS FAIR. CLOUD COVER AND HAZE OBSCURE APPROXIMATELY 20
 PERCENT OF THE ENTIRE MISSION.

2. MISSION DATA:

A. GLASS LAMP MISSION G-052 WAS FLOWN ON 25 NOVEMBER
 USING A DELTA III CAMERA SYSTEM WITH UNITS I-8 (FORWARD LOOKING AND
 I-7 (AFT LOOKING).

B. FILM TYPE 3404 WAS USED THROUGHOUT THE MISSION WITH AN
 EXPOSURE OF 1/450 AND A WRATTEN 21 FILTER. THE ORIGINAL NEGATIVES
 WERE PROCESSED WITH MX 578 IN A VERSAMAT AT AN AVERAGE GAMMA
 FOR THE FORWARD CAMERA NEGATIVES AND 2.91 FOR THE AFT CAMERA
 NEGATIVES.

3. ORIGINAL NEGATIVES:

A. EXPOSURE: ADEQUATE THROUGHOUT THE MISSION FOR BOTH
 B. DENSITY AND CONTRAST: GENERALLY MEDIUM FOR BOTH UNITS
 DURING THE ENTIRE MISSION.

C. IMAGE DEGRADATIONS:

(1) FORWARD CAMERA (I-8): A PLUS DENSITY LINE PARALLEL TO

ADVANCE BY
 SANITIZED
 WHEN NEEDED

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 THE MAJOR AXIS AND LOCATED 0.3 INCHES FROM THE TITLED EDGE IS PRESENT
 IN AND BETWEEN ALL FRAMES. A MINUS DENSITY LINE PARALLEL TO THE
 MAJOR AXIS IS LOCATED 0.95 INCHES FROM THE TITLED EDGE THROUGHOUT
 THE MISSION. THE SECONDARY IMAGES REPORTED ON THE TEST MISSIONS ARE
 NOT NOTICEABLE. (DELTA III TEST 1 OF 13 NOVEMBER 1968 AND TEST 2 OF
 14 NOVEMBER 1968). THE LAST SIX FRAMES CONTAIN FOGGING ASSOCIATED
 WITH CAMERA SHUTDOWN.

(2) AFT CAMERA (I-7): A MINUS DENSITY LINE PARALLEL TO
 THE MAJOR AXIS OF THE FILM IS LOCATED 0.6 INCHES FROM THE TITLED
 EDGE THROUGHOUT THE MISSION. THE FIRST SIX FRAMES (TITLED 3 THRU 8)
 CONTAIN SPLASHES OF FOG SPACED APPROXIMATELY 48 INCHES APART.

SECRET

GROUP 1
 Excluded from automatic
 downgrading and
 declassification

FRAMES 141 THRU 169 AND 178 THRU 203 CONTAIN A FOG PATTERN OF MODERATE DENSITY WHICH DEGRADES APPROXIMATELY TWO-THIRDS OF THE ENTIRE FILM WEB. THE FOG EXTENDS FROM THE NON-TITLED EDGE TOWARD THE CENTER OF FORMAT. A SIMILAR FOG PATTERN WAS PRESENT IN THE TWO TEST MISSIONS. HOWEVER, IN BOTH TESTS, THE FOGGING OCCURRED NEAR THE BEGINNING OF THE MISSION. THE LAST 0.25 INCHES OF SCAN APPEAR TO BE OF SLIGHTLY HEAVIER DENSITY THAN THE REST OF THE FORMAT THROUGHOUT THE MISSION. THE SECONDARY IMAGES ASSOCIATED WITH HIGHLY

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REFLECTIVE OBJECTS ARE PRESENT THROUGHOUT THE MISSION. THE LAST NINE FRAMES CONTAIN FOGGING ASSOCIATED WITH CAMERA SHUTDOWN.

(3) BOTH CAMERAS: BANDING IS NOTICEABLE IN THE FIRST 2.0 INCHES OF SCAN. THERE ARE SEVERAL INSTANCES OF SEVERE CROSS-TRACK SMEAR DUE TO VEHICLE MANEUVERING. EDGE FOG IS PRESENT ALONG BOTH EDGES INTERMITTENTLY.

D. PHYSICAL DEGRADATIONS:

(1) FORWARD CAMERA (I-8): FOUR SPLICES ARE PRESENT IN THIS MISSION. A FOUR INCH SEGMENT OF FRAME 689 CONTAINS A HEAT SPLICE AT ONE END AND A TAPE REPAIRED TEAR AT THE OTHER END. FRAMES 675 THRU 1015 HAVE BEEN RETITLED.

(2) AFT CAMERA (I-7): SEVEN HEAT SPLICES ARE PRESENT IN THIS MISSION WITH ASSOCIATED HANDLING MARKS. DROPLETS OF A FOREIGN SUBSTANCE ARE PRESENT IN FRAMES 1013 AND 1014. FRAMES 751 THRU 1200 HAVE BEEN RETITLED.

(3) BOTH CAMERAS: RAIL SCRATCHES ARE PRESENT IN THE BORDER AREAS, ALONG THE MAJOR AXIS OF THE FILM.

E. AUXILIARY DATA: THE FREQUENCY MARKS AND TIME WORDS WERE NOT IMAGED ON EITHER CAMERA RECORD. THE FRAME COUNTER AND SERIAL NUMBER FUNCTIONED PROPERLY.

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F. OTHER:

(1) FORWARD CAMERA (I-8): THE FRAME COUNTER READS 29 FOR TITLED FRAME 001. THE LAST TITLED FRAME IS 1388.

(2) AFT CAMERA (I-7): THE FRAME COUNTER READS 31 FOR TITLED FRAME 003 (THE FIRST TITLED FRAME). THE PROCESSING FACILITY TITLED THE MATERIAL IN THIS MANNER SO THAT THE TITLED FRAMES AND FRAME COUNTERS WOULD CORRESPOND FOR BOTH CAMERAS.

4. POSITIVES: PRINTING AND PROCESSING ARE GOOD.

GP-1

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END OF MESSAGE