

SECRET

OUT 66507

3 Dec 68 20 067  
25X1  
25X1

SECRET 031858Z DEC 68 CITE [ ] 5154

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 APPROXIMATELY THE FIRST 600 FRAMES OF THE FORWARD AND AFT MATERIALS. A GRADUAL CHANGE IN IMAGE QUALITY IS APPARENT FROM THE BEGINNING OF THE MISSION TO THE END (FAIR TO GOOD). INTERPRETATION SUITABILITY OF 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 1968 USING A DELTA III CAMERA SYSTEM WITH UNITS I-8 (FORWARD LOOKING 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 OF 2.98 FOR THE FORWARD CAMERA NEGATIVES AND 2.91 FOR THE AFT CAMERA NEGATIVES.

3. ORIGINAL NEGATIVES:

A. EXPOSURE: ADEQUATE THROUGHOUT THE MISSION FOR BOTH UNITS.

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

C. IMAGE DEGRADATIONS:

(1) FORWARD CAMERA (I-8): A PLUS DENSITY LINE PARALLEL TO THE MAJOR AXIS AND LOCATED 0.3 INCHES FROM THE TITLED EDGE 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 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. 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

DISTRIBUTION		
CY	OFFICE	PI
	1968 FILE	
	ANGLE SEC	
	PPR/RD	
	ANGECUR.	
	SSS	34/135
	PSG/OC	
	RFD	
	RSPRO	
	AID	25X1
	UNITS PROD	
	SCLEN	
	WEST	
	ETC	
	IS PRESENT	
	PCM	
	TAS	5 /AS
	DA-XR4	
	SPAD	
	DIA-AP	
		25X1
	CMX	

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 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

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

SECRET

PAGE 4 [REDACTED] 5154 S E C R E T

25X1

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.

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

S E C R E T

END OF MESSAGE