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JUL 21 18 21 '64  
PRIORITY

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PRIORITY [REDACTED] INFO [REDACTED] CITE [REDACTED]

CORONA J

REF: [REDACTED]

SUBJ: REPLY TO REF

1. DENSITY READINGS WERE TAKEN ON THE STELLAR CAMERA NEGATIVES OF MISSION 1007-1,2, USING THE MACBETH QUANTALOG DENSITOMETER MODEL EP1000 WITH AN ET20 ATTACHMENT AND AN 0.5MM APERTURE.

2. THE GROSS FOG LEVEL ON THE NEG OF MSN 1007-2 SHOWED LITTLE DEVIATION THROUGHOUT THE FILM. A TOTAL OF 70 RANDOM READINGS SHOWED NO PATTERN OF FOGGING AND REVEALED A SPREAD IN FOG LEVEL FROM 0.19 TO 0.21, WHICH IS CONSIDERED NORMAL.

3. THE GROSS FOG LEVEL ON THE NEG OF MSN 1007-1 FLUCTUATED IN A CYCLICAL FASHION THROUGHOUT THE FILM. THE NORMAL FOG LEVEL SPREAD WAS BETWEEN 0.19 AND 0.21; HOWEVER ON FRAMES 1-4, 59-76, 149-157, 165-174, AND 243-255, THE FOG LEVELS RANGED AS HIGH AS 0.69. THE AREAS OF HIGHER THAN NORMAL GROSS FOG CORRELATE ROUGHLY WITH LONG PERIODS OF NON-PHOTOGRAPHIC ACTIVITY. FRAMES 1-4 WERE IN THE CAMERA FROM LAUNCH TO PASS D02. FRAME 76 IS THE FIRST FRAME OF D20 AND FRAMES 59-75 WERE AT REST BETWEEN THE CAMERA AND THE TAKE-UP SPOOL FOR 10 NON-PHOTOGRAPHIC PASSES. FRAMES 149-157 WERE 8 FRAMES AWAY (BETWEEN THE CAMERA AND TAKE-UP SPOOL)

Declassified and Released by the NRO

In Accordance with E. O. 12958

on NOV 26 1997

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FROM THE BEGINNING FRAME OF PASS D36, THE FIRST PHOTOGRAPHIC PASS SINCE PASS D25. FRAMES 166-174 DO NOT FIT THIS PATTERN, BUT ARE THE FIRST FRAMES AFTER A LONG NON-PHOTOGRAPHIC PERIOD. FRAMES 243-255 ARE 7 FRAMES AWAY (AGAIN TOWARD THE TAKE-UP SPOOL) FROM THE FIRST FRAME OF D49, THE FIRST PHOTOGRAPHIC PASS SINCE PASS D41.

4. FOLLOWING IS A TABULATION OF GROSS FOG LEVELS TAKEN THROUGH-  
OUT THE FILM.

FRAME	GROSS FOG
2	0.79
4	0.40
5	0.21
57	0.20
58	0.21
59	0.21
60	0.26
61	0.31
62	0.40
63	0.48
64	0.54
65	0.57
66	0.56
67	0.49
68	0.38

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69	0.32
70	0.43
71	0.48
72	0.52
73	0.57
74	0.53
75	0.47
76	0.29
77	0.19
78	0.19
148	0.21
149	0.28
150	0.31
151	0.39
152	0.52
153	0.57
154	0.60
155	0.59
156	0.49
157	0.34
158	0.19
159	0.20
160	0.20
161	0.19

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162	0.19
163	0.21
164	0.21
165	0.20
166	0.22
167	0.27
168	0.28
169	0.34
170	0.38
171	0.38
172	0.41
173	0.41
174	0.25
175	0.19
176	0.19
240	0.20
241	0.21
242	0.21
243	0.27
244	0.28
245	0.28
246	0.28
247	0.30

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248	0.39
249	0.49
250	0.61
251	0.69
252	0.69
253	0.68
254	0.61
255	0.37
256	0.19
257	0.20

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