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0053Z 14 DEC 50

PRIORITY

PRIORITY

DIRECTOR

[REDACTED]

Declassified and Release Authority: E.O. 13526

OPS (1,2,3,4)

In Accordance with E.O. 13526

S/C (5)

on NOV 26 1997

VP

TOR: 0156Z 14 DEC 50

[REDACTED]
[REDACTED]

[REDACTED]
[REDACTED]

This document contains information referring to Project **COZMA**

REF A. MISSION 9013

B. [REDACTED]

C. [REDACTED]

1. TIMER DRIFT IS THE NUMBER OF SECONDS TIMER (WHICH CONTROLS RATE OF MOVEMENT OF CAMERA ON/OFF TAPE) WILL VARY DURING A PASS. BY SPECIFICATIONS THE DRIFT ALLOWED IS A MAX OF PLUS 10 SECONDS PER ORBIT. THE RESET FUNCTION CAN REMOVE THIS ERROR WHEN EVEN RESET COMMANDS CAN BE ISSUED. NORMALLY RESET COMMANDS CAN BE ISSUED NO LONGER APART THAN 3 PASSES.

2. REF PARA 2 OF REF C. SOURCE OF ERRORS AS FOLLOWS:

(A) TIMER DRIFT. THIS IS AN INHERENT ERROR IN THE PROGRAMMER BECAUSE THE DEVISE IS NOT MECHANICALLY PERFECT. ERROR CAN BE REDUCED TO MINIMUM BY CONTINUAL RESET COMMANDS.

(B) PERIOD ADJUST. THE TAPE TRAVELS AT A RATE THAT IS ADJUSTED FROM THE GROUND IN STEPS OF 10 SECONDS INTERVALS. MAX ERROR INDUCED HERE IS 5 SECONDS. THIS ERROR KEPT TO MINIMUM BY COMMAND RESET

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(C) COMMAND RESET. PROBLEM HERE IS IN ISSUING COMMANDS TO VEHICLE AND HAVING THEM ACCEPTED BY VEHICLE. EVERY ATTEMPT IS MADE TO ACCOMPLISH THIS ACT. HOWEVER, TRANSMISSION PROBLEMS CAN PREVENT THE COMMAND FROM BEING ISSUED AT ALL OR CAUSE THE RESET TO OCCUR LATE. RESET COMMAND DIFFICULTIES WOULD NORMALLY BE BIGGEST SOURCE OF ERROR.

3. REF PARA 3 OF REF C. ABOVE ERRORS WERE PRESENT IN MSH 9009 AND WILL BE PRESENT IN ANY MISSION FLOWN. ERRORS CAN NOT BE ELIMINATED BUT ARE KEPT TO A MINIMUM. AS STATED BEFORE TO INSURE CAMERA TURN ON AT A SPECIFIC LATITUDE A "PAD" MUST BE INCLUDED IN TAPE PROGRAM. HOWEVER, IT MUST BE REMEMBERED THIS "PAD" CONSUMES FILM. IN PAST MISSIONS AND IN 9013 BIGGEST ERRORS HAVE BEEN IN PASSES 2 TO 5 BECAUSE SOME RESET DIFFICULTIES HAVE BEEN EXPERIENCED ON PASS ONE AND TWO. ROUGH RESETS WERE MADE ON THESE PASSES AND THEN REFINED ON PASS 6 AT [REDACTED] (NOTE CORRECTION ON REF C AT PASS 6. ALSO NOTE CUMULATED EFFECT OF ROUGH RESET BETWEEN PASS 2 AND 5).

4. ON MISSION 9013 RESET COMMAND ON PASS ONE WAS 17 SEC LATE DUE TO COMMAND PROBLEMS, ALSO NOT ABLE TO ISSUE RESET ON PASS 2. AS EXPLAINED ABOVE EFFECT WAS CUMULATIVE UNTIL PASS 6.

END OF MESSAGE

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