

ORIG: [REDACTED]  
UNIT: C/D&AD/OSP  
EXT: 6775  
DATE: 30 APRIL 1969

**SECRET**

1	[REDACTED]	9
2	[REDACTED]	10
3	[REDACTED]	11
4	[REDACTED]	12
5	[REDACTED]	13
6	[REDACTED]	14
7	[REDACTED]	15
8	[REDACTED]	16

TO : [REDACTED]  
FROM : [REDACTED]  
CONF: *relay to* [REDACTED]  
INFO :

Declassified and Released by the NRC  
In Accordance with E. O. 12958  
on NOV 26 1997  
01 22 17 z MAY 69

DEFERRED	PRIORITY	INITIALS
		[REDACTED]
ROUTINE	OPERATIONAL IMMEDIATE	INITIALS
		[REDACTED]

TO INFO CITE [REDACTED]

**SECRET**

INFO [REDACTED]  
CORONA  
REF: [REDACTED]

1106

1. A NUMBER OF DISIC INDEPENDENT MODE OPERATIONS WERE INCORRECTLY PREPROGRAMMED ON THE H-TIMER TAPE FOR 1106. THESE ERRORS WERE NOT DISCOVERED UNTIL TOO LATE TO INITIATE REMEDIAL ACTION. AS A RESULT, IN SOME CASES THE [REDACTED] HAD TO EXPEND MORE FILM THAN NECESSARY IN ORDER TO ACHIEVE THE DESIRED COVERAGE. THIS INCORRECT PREPROGRAMMING WAS A RESULT OF A LOGIC ERROR IN A COMPUTER PROGRAM. THIS LOGIC ERROR HAS BEEN IDENTIFIED AND CORRECTED. NO ADDITIONAL FUNDING IS REQUIRED.

2. THE DISIC CAMERA HAS TWO MODES OF ON-ORBIT CONTROL: A SLAVE MODE AND AN INDEPENDENT MODE. IN THE SLAVE MODE THE DISIC CAMERA IS ON WHENEVER EITHER

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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OF THE PANORAMIC CAMERAS ARE ON. IN THE INDEPENDENT MODE DISIC CAMERA, OPERATION IS CONTROLLED BY ONE TRACK OF THE H-TIMER TAPE. THE PRE-MISSION PROGRAMMING FOR THE INDEPENDENT MODE OF DISIC OPERATION IS BASED UPON PRE-MISSION GUIDANCE FROM THE [REDACTED]. THIS PRE-MISSION GUIDANCE IS IN THE FORM OF GEOGRAPHICAL AREAS WHERE INDEPENDENT MODE CONTROL OF DISIC IS DESIRED. THESE GEOGRAPHICAL AREAS ARE TRANSLATED INTO THE H-TIMER TAPE PUNCH LOCATIONS BY A COMPUTER PROGRAM. THIS COMPUTER PROGRAM IS PART OF THE OVER ALL CALICO SYSTEM WHICH IS USED WITH THE DUAL INTERMIX VERSION OF THE ON-ORBIT CORONA SYSTEM PROGRAMMER. AS MISSION 1106 WAS THE FIRST OF A NEW VERSION OF PROGRAMMERS (THE SHIFT REGISTER PROGRAMMER) THE ENTIRE CALICO SYSTEM WAS NOT USED FOR 1106. HOWEVER, THE DISIC INDEPENDENT

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**MODE PRE-PROGRAMMING AND THE TWO EMERGENCY PROGRAMS**

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APPROPRIATE AGENCIES	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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WERE GENERATED WITH THE PORTIONS OF THE CALICO SYSTEM PREVIOUSLY USED FOR PERFORMING THESE FUNCTIONS.

3. THE ERRORS IN THE DISIC INDEPENDENT MODE PRE-PROGRAMMING WERE CAUSED BY A UNIQUE PATTERN OF COVERAGE REQUIREMENTS WHICH INCLUDED AREAS IN THE ANTARCTICA. THIS UNIQUE SITUATION HAD NOT BEEN ENCOUNTERED ON ANY OF THE COMPUTER PROGRAM TESTS PERFORMED TO DATE NOR ON THE PREVIOUS FOUR DISIC MISSIONS. NO FUTURE PROBLEM OF THIS SORT IS ANTICIPATED.

4. THE DISIC INDEPENDENT MODE PROGRAM AND THE TWO EMERGENCY PROGRAMS PLANNED FOR 1106 WERE FORWARDED TO [REDACTED] ON 21 JANUARY [REDACTED]. THIS DATA MESSAGE ACCURATELY REFLECTED THE PROGRAMS SUBSEQUENTLY PUNCHED INTO THE H-TIMER TAPE. DURING MISSION 1106, THE [REDACTED] WAS PROVIDED ON A DAILY BASIS WITH

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OPERATIONAL	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

TO :  
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TO INFO CITE

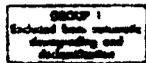
██████████ MESSAGES WHICH AMONG OTHER THINGS  
 DISPLAY THE COVERAGE THAT WOULD BE OBTAINED WITH  
 DISIC IF IT WERE OPERATED IN THE INDEPENDENT MODE.  
 THESE MESSAGES ALSO ACCURATELY REFLECT THE ACTUAL  
 PROGRAM PUNCHED IN THE H-TIMER TAPE.

5. BASED ON THE ABOVE, THE ██████████ HAD AVAILABLE BOTH  
 PRE-MISSION AND DURING THE MISSION THE ACTUAL INDEPENDENT  
 MODE DISIC PROGRAM. HOWEVER, EARLY IN THE MISSION  
 THE ██████████ DUTY OFFICER REQUESTED SOME CLARIFYING  
 INFORMATION ON COMMANDING ALTERNATIVES FROM THE ██████████  
 DUTY OFFICER. IT APPEARS THAT SOME MISLEADING  
 INFORMATION MAY HAVE BEEN PASSED TO THE ██████████ CONCERNING  
 DISIC OPERATION ON REV 17-18. ██████████ HAS BEEN INSTRUCTED  
 TO REVIEW THE DISIC CONTROL MODES WITH THE ██████████ PRIOR  
 TO THE NEXT DISIC MISSION. *SIGDENOTE!* ██████████ REQUEST.  
 END OF MESSAGE

*John N. McMahon*  
**JOHN N. MCMAHON**  
 ACTING D/OSP  
 RELEASING OFFICER

COORDINATING OFFICERS

~~SECRET~~



██████████  
**C/ DEXD/OSP**  
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