

1963 R10 Lead File

JOINT MESSAGEFORM

SECURITY CLASSIFICATION

CLASSIFICATION CHANGED TO

SPACE BELOW RESERVED FOR DECLASSIFICATION CENTER

LIX

APR 20 5 2

04 13 075

ACTION:	INFO:	BOOK	MULTI	SINGLE	ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
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FROM:

6595 TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF.

TO: SPACE SYSTEMS DIV LOSA CALIF.
VW ZD-7-1-5

SUBJECT: 8-HOUR FLASH REPORT

L. SUMMARY

A VEHICLE CONSISTING OF SLV-2 BOOSTER NO. 369 AND S-01A ORBITAL STAGE NO. 1157 WAS LAUNCHED ON THE FIRST ATTEMPT FROM VAFB COMPLEX 75-1, PAD 1, AT 1309:49.06 PST ON 7 JANUARY 1963. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE S-01A SATELLITE WITH PAYLOAD IN A NEAR-POLAR ORBIT, WAS ACCOMPLISHED. INJECTION CONDITIONS FROM THE VTS RADAR PLOTBOARD WERE NOT AVAILABLE DUE TO RADAR FADE APPROXIMATELY 25 SEC BEFORE S-01A ENGINE CUTOFF, HOWEVER UP TO THE TIME ^{OF} OR RADAR LOSS, THE ASCENT TRAJECTORY CLOSELY FOLLOWED THE PREPLOT. THE ORBITAL PERIOD ATTAINED APPEARS TO BE NEAR-NOMINAL, BASED ON FIRST PASS ACQUISITION.

SPECIAL INSTRUCTIONS

DOWNGRADE AT 3 YEAR INTERVALS;
 DECLASSIFIED AFTER 12 YEARS;
 DOD DIR 8200.10

DATE	TIME
7	0220Z
MONTH	YEAR
JAN	63

SYMBOL	
TYPED NAME AND TITLE (Signatures, if required)	
C. S. WALLER, LT. COL., USAF	
PHONE	866-5831
PAGE NO.	1
SECURITY CLASSIFICATION	

SIGNATURE	
TYPED (or stamped) NAME AND TITLE	

DD FORM 173 MAY 58

REPLACES DD FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

JOINT MESSAGEFORM - CONTINUATION SHEET

0525 TR AND	
PERMANENT	
STARTING	2.00
MICO (8)	92.31 SEC
VIDEO	149.39 SEC
ENABLE D1 AND D2 (82)	158.37 SEC
D1 ON	154.41 SEC
D1 OFF	157.13 SEC
D2 ON	158.50 SEC
D2 OFF	159.69 SEC
SEPARATION COMMAND (83)	163.62 SEC
SEPARATION COMPLETE	164.17 SEC
ILLAGE SOCKET POSITION	166.4 SEC
S-01A ENGINE IGNITION	184.64 SEC
S-01A THRUST ATTACHMENT (30 PER CENT PC)	194.64 SEC
S-01A THRUST (75 PER CENT PC)	195.78 SEC
S-01A LINE A RECONSTRUCT FASE	437.28 SEC
YTS VELOCITY BARBAR FASE	484 SEC
YTS VELOCITY BARBAR FASE	412 SEC
YTS ACCELERATION REASON FASE	467 SEC
YTS VELOCITY DATA FASE (LINK 2)	478 SEC

SYMBOL: _____

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NO. OF COPIES: _____

INITIALS: _____

DD FORM 173-1

ALL BOOSTER AND VEHICLE SYSTEMS PERFORMED SATISFACTORILY AND RESPONSE TO GROUND GUIDANCE SYSTEM COMMANDS PROVIDED THE REQUIRED COAST APOGEE CONDITIONS.

GROUND GUIDANCE SYSTEM DATA INDICATE THAT BOOSTER COAST APOGEE ALTITUDE WAS 106.95 NM (NOMINAL: 106.91 NM) AND THE VELOCITY WAS 9984 FPS (NOMINAL: 9967 FPS).

IV. S-01A PERFORMANCE

ALL S-01A VEHICLE SVS SYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE ADEQUATE TRAJECTORY CONDITIONS FOR CORRECT ORIENTATION AT ENGINE SHUTDOWN.

AT THE TIME OF SIGNAL MADE BY VTS, ALL VEHICLE SUB-SYSTEMS WERE FUNCTIONING NORMALLY, AND THE ORBITAL TIMER WAS SET AT 5414 SEC (STEP 19) IN THE RESET-ON POSITION, IN THE INCREASE MODE, AND ALTERNATE RE-ENTRY ORBITAL STATE.

V. AEROSPACE GROUND EQUIPMENT

IN GENERAL, THE AEROSPACE GROUND EQUIPMENT PERFORMED SATISFACTORILY. DURING S-01 FUEL LOADING, URGES LEAKED FROM A HARDLINE FITTING IN THE MAST FUEL SUPPLY LINE AT ONE DROP PER SEC. NO CORRECTION PROBLEM WAS ENCOUNTERED.

SYNOPSIS	PAGE NO 3	NO OF PAGES	IDENTIFICATION	INITIALS
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VI. COMMENTS

THE PROBLEMS WAS LAUNCHED ON THE FIRST COUNTDOWN ATTEMPT. DELAYED REPROGRAMMING WINDOW. ONE TECHNICAL HOLD OF 4 MIN 45 SEC DURATION WAS IMPOSED DURING PHASE II (T-11 MIN) IN ORDER TO SEND PERSONNEL TO THE PAD TO ADJUST THE DAG ACE GAS SUPPLY PRESSURE REGULATOR. THE COUNTDOWN WAS RECYCLED TO START OF TERMINAL COUNTDOWN. IN ADDITION THE FOLLOWING PROBLEMS DELAYS WERE ENCOUNTERED:

- 1) TASK 4 WAS EXTENDED 54 MIN DUE TO PAYLOAD MECHANICAL MATING PROBLEMS.
- 2) THE TELEMETRY MEASUREMENT OF AGENA CHARGE GAS TEMPERATURE (079) WAS INOPERATIVE DURING THE COUNTDOWN AND LAUNCH.
- 3) A SMALL FUEL LEAK OCCURRED IN THE LASC MAST PIPING DURING THE PROPELLANT LOADING OPERATION AND CAUSED AN INDICATION ON LEAK DETECTOR MONITORS.

VII. PAD DAMAGE

PAD DAMAGE WAS NORMAL AND THE RECOVERY SCHEDULE CAN BE MAINTAINED.

SYMBOL

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