

1963 R10 Lead File

JOINT MESSAGEFORM

SECURITY CLASSIFICATION

SPACE BELOW RESERVED FOR CLASSIFICATION CENTER

CLASSIFICATION CHANGED TO

LIX

By Authority of AFB 205-2
Signe McShane

cy #3 of 5

PRECEDENCE DATE: 12 APR 63

CLASS (Check)

ACCOUNTING SYMBOL

ORIG. OR REFERS TO

CLASSIFICATION OF REFERENCE

ACTION

BOOK

MULTI

SINGLE

INFO

FROM:

6595 TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF.

SPECIAL INSTRUCTIONS

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

SUBJECT: 8-HOUR FLASH REPORT

I. 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-01^A 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 PREPDOT. THE ORBITAL PERIOD ATTAINED APPEARS TO BE NEAR-NOMINAL, BASED ON FIRST PASS ACQUISITION.

DOWNGRADE AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

DATE	TIME
7	0220Z
MONTH	YEAR
JAN	63

SYMBOL

SIGNATURE

TYPED NAME AND TITLE (Signature, if required)

C. S. WALLER, LT. COL., USAF

TYPED (or stamped) NAME AND TITLE

PHONE 866-5831

PAGE NR. 1

NR. OF PAGES

SECURITY CLASSIFICATION

GROUP NO.

DD FORM 173
1 MAY 58

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

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION

6895 TH AIRBORNE CREST W/2

II SIGNIFICANT EVENTS

PRELIMINARY VALUES OF SIGNIFICANT LAUNCH EVENTS ARE:

LIFTOFF (330549.06 PST)	ZERO	
STEERING INITIATED	92.31	SEC
MECO (S1)	149.39	SEC
YEEO	158.37	SEC
ENABLE D1 AND D2 (S2)	154.41	SEC
D1 ON	157.13	SEC
D1 OFF	158.50	SEC
D2 ON	158.69	SEC
D2 OFF	163.62	SEC
SEPARATION COMMAND (S3)	164.17	SEC
SEPARATION COMPLETE	166.4	SEC
ULLAGE ROCKET IGNITION	184.64	SEC
S-01A ENGINE IGNITION	194.64	SEC
S-01A THRUST ATTAINMENT (90 PER CENT PC)	195.78	SEC
S-01A BURNOUT (70 PER CENT PC)	437.28	SEC
S-01A LINK 2 TELEMETRY FADE	484	SEC
VTS VERLORT RADAR FADE	412	SEC
VTS ACQUISITION BEACON FADE	467	SEC
VTS TELEMETRY DATA FADE (LINK 1)	476	SEC

SYMBOL

PAGE NO

NO OF PAGES

SECURITY CLASSIFICATION

INITIALS

DD FORM 173-1
MAY 55

449TH AEROSPACE TEST WGT. [REDACTED]

III. SLY-2 PERFORMANCE

ALL BOOSTER SUB-SYSTEMS PERFORMED SATISFACTORILY AND IN 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 9956 FPS (NOMINAL: 9967 FPS).

IV. S-01A PERFORMANCE

ALL S-01A VEHICLE SUB-SYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE ADEQUATE TRAJECTORY CONDITIONS FOR ORBITAL INJECTION AT ENGINE SHUTDOWN.

AT THE TIME OF SIGNAL FADE AT VTS, ALL VEHICLE SUB-SYSTEMS WERE FUNCTIONING NORMALLY, AND THE ORBITAL TIMER WAS SET AT 5419 SEC (STEP 19) IN THE RESET-ON POSITION, IN THE INCREASE MODE, AND ALTERNATE RE-ENTRY DISARM STATE.

V. AEROSPACE GROUND EQUIPMENT

IN GENERAL, THE AEROSPACE GROUND EQUIPMENT PERFORMED SATISFACTORILY. DURING S-01 FUEL LOADING, UDMH LEAKED FROM A HARDLINE FITTING IN THE MAST FUEL SUPPLY LINE AT ONE DROP PER 5 SEC. NO COMMUNICATION PROBLEM WAS ENCOUNTERED.

SYMBOL

PAGE
NR
3NR OF
PAGE

SECURITY CLASSIFICATION

INITIALS

DD FORM 173-1
MAY 55



VI. COUNTDOWN

THE VEHICLE WAS LAUNCHED ON THE FIRST COUNTDOWN ATTEMPT DURING THE SCHEDULED DAWN/DAYTIME "WINDOW". ONE TECHNICAL HOLD OF 8 MIN 48 SEC DURATION WAS IMPOSED DURING PHASE II (7-11 MIN) IN ORDER TO SEND PERSONNEL TO THE PAD TO ADJUST THE DAG AGE GAS SUPPLY PRESSURE REGULATOR. THE COUNTDOWN WAS RECYCLED TO START OF TERMINAL COUNTDOWN. IN ADDITION THE FOLLOWING PROBLEMS AND DELAYS WERE ENCOUNTERED:

APR 1968
S 1

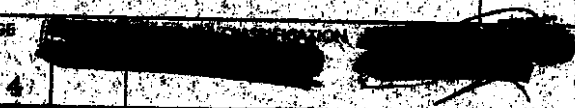
- 1) TASK 2 WAS EXTENDED 84 MIN DUE TO PAYLOAD MECHANICAL MATING PROBLEMS.
- 2) THE TELEMETRY MEASUREMENT OF AGENA GUIDANCE GAS TEMPERATURE (D70) WAS INOPERATIVE DURING THE COUNTDOWN AND LAUNCH.
- 3) A SMALL FUEL LEAK OCCURRED IN THE LMSC MAST PLUMBING DURING THE PROPELLANT LOADING OPERATION AND CAUSED AN INDICATION ON LEAK DETECTOR MONITORS.

VII. PAD DAMAGE

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

SYMBOL

PAGE NO



INITIALS