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JOINT MESSAGEFORM

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LXV

ACTION INFO	PRECEDENCE			TYPE MESSAGE			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
	ROUTED	DEFERRED	DEFERRED	ROUTED	DEFERRED	DEFERRED			

FROM: 6595th AEROSPACE TEST WING
VANDENBERG AFB, CALIF., VWZD

SPECIAL INSTRUCTIONS

TO: SPACE SYSTEMS DIVISION, LOSA, CALIF.

Subj: EIGHT HOUR FLASH REPORT

I. SUMMARY 12-6-266

A VEHICLE CONSISTING OF SLV-2A BOOSTER NO. 362 AND S-01A ORBITAL STAGE NO. 1161 WAS LAUNCHED ON THE SECOND ATTEMPT FROM VAFB COMPLEX 75-3, PAD 4, AT 1658:38.03 PDT, ON 12 JUNE 1963. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE S-01A SATELLITE WITH PAYLOAD IN A NEAR-POLAR ORBIT, WAS ACCOMPLISHED. BOTH GROUND GUIDANCE TRAJECTORY EVALUATION AND THE REPORTED FIRST PASS ORBITAL PARAMETERS CONFIRM THAT NEAR NOMINAL TRAJECTORY CONDITIONS EXISTED AT S-01A ENGINE SHUTDOWN. CONTROL GAS CONSUMPTION WAS EXCESSIVE DURING THE S-01A THRUST INTERVAL.

DATE 12	TIME 1658
MONTH JUN	YEAR 63

SYMBOL

TYPED NAME AND TITLE (If required)
F. L. WRIGHT MAJ. USAF

PHONE 866/3000

SECURITY CLASSIFICATION

SIGNATURE

TYPED (or stamped) NAME AND TITLE

DOWNGRADED AT 3 YEAR INTERVAL
DECLASSIFIED AFTER 12 YEARS
DOD DIRECTIVE 5200.10

B. SIGNIFICANT EVENTS

PRELIMINARY VALUES OF SIGNIFICANT LAUNCH EVENTS

ARX

LIFT OFF (1418:38.03 EDT)	ZERO
WHEELS OFF ON SOLID MOTORS	27.28 SEC
SOLID MOTOR THRUST TERMINATION	39 SEC
SOLID MOTOR SEPARATION SIGNAL	70.69 SEC
SOLID MOTOR JETTISON	79.72 SEC
SPINNING INITIATED	92.52 SEC
MISSILE D	148.15 SEC
TRIP	157.08 SEC
SEPARATION SIGNAL (S-2)	161.78 SEC
SEPARATION COMPLETE	164.09 SEC
WILLAGE ROCKET IGNITION	166.03 SEC
S-01A ENGINE IGNITION	169.04 SEC
S-01A THRUST ATTAINMENT (98 PER CENT PC)	178.22 SEC
BEGIN S-01A STEERING	180.52 SEC
END S-01A STEERING	360.91 SEC
KNABEL S-01A VELOCITY METER	362.38 SEC
S-01A ENGINE SHUTDOWN (VELOCITY METER)	411.15 SEC

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FORM 1

VTS VELOCITY RADAR SIGNAL LOSS 413 SEC
 VTS TELEMETRY DATA LINK (LINK 1) 456 SEC
 VTS TELEMETRY SIGNAL STRENGTH FADE (LINK 2) 460 SEC
 VTS TELEMETRY SIGNAL STRENGTH FADE (LINK 3) 468 SEC
 VTS TELEMETRY SIGNAL STRENGTH FADE (LINK 4) 469 SEC

III. SLV-2A PERFORMANCE

ALL SLV-2A SUBSYSTEMS PERFORMED ADEQUATELY FOR ACHIEVEMENT OF THE PRIMARY TEST OBJECTIVES.

IV. COMMAND GUIDANCE

PERFORMANCE OF THE COMMAND GUIDANCE SYSTEM WAS SATISFACTORY. QUICK-LOOK EVALUATION OF INJECTION CORRECTIONS AND ORBITAL PARAMETERS AT GUIDANCE TERMINATION PROVIDED AN INJECTION ALTITUDE OF 115.45 NM (NOMINAL: 107.45 NM), INJECTION FLIGHT PATH ANGLE OF PLUS 0.35 DEG (NOMINAL: PLUS 0.12 DEG), ORBITAL PERIOD OF 90.70 MIN (NOMINAL: 90.89 MIN), AND INCLINATION ANGLE OF 51.59 DEG (NOMINAL: 51.40 DEG). ORBITAL PARAMETERS REPORTED AFTER REV 1 ARE: PERIGEE ALTITUDE OF 109 NM (NOMINAL: 116.10 NM), APOGEE ALTITUDE OF 241 NM (NOMINAL: 237.90 NM).

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ECCENTRICITY OF 0.224 (NOMINAL: 0.077), PERIOD OF 90.34 MIN (NOMINAL: 90.34 MIN), AND INCLINATION ANGLE OF 81.39 DEG (NOMINAL: 81.80 DEG).

V. S-NIA PERFORMANCE

ALL S-NIA VEHICLE SUBSYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE ADEQUATE ORBITAL INJECTION CONDITIONS AT ENGINE SHUTDOWN. CONTROL GAS CONSUMPTION WAS EXCESSIVE DURING THE THRUST INTERVAL. TOTAL GAS CONSUMPTION THROUGH SIGNAL FADE WAS APPROXIMATELY 16 LBS., 14 LBS. OF WHICH WERE EXPENDED DURING ENGINE BURN, GAS VALVE ACTIVITY, AND A 3.4 DEG OFFSET IN ROLL STAB OFFSET ARE INDICATIVE OF THE PRESENCE OF A SIGNIFICANT EXTRANEQUS ROLL TORQUE DURING THE THRUST INTERVAL. AT THE TIME OF TELEMETRY SIGNAL FADE AT 77S, THE ORBITAL TIMER WAS SET AT 1454 SEC (STEP 249) IN THE RESET-ON POSITION, IN THE INCREASE MODE, AND ALTERNATE RE-ENTRY DEARM STATE.

VI. SPACE-GROUND COMMUNICATIONS

TELEMETRY DATA FROM ALL LINKS WERE SATISFACTORILY RECEIVED AND RECORDED.

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FROM

THE VERBODT RADAR EXPERIENCED DIFFICULTY IN MAINTAINING CONTINUOUS TRACK OF THE VEHICLE DUE TO WEAK SIGNAL STRENGTH RETURN FROM THE S-BAND BEACON. INTERMITTENT TRACK STARTED AT 265 SEC WITH 6 PERIODS OF TARGET LOSS RANGING FROM 2 TO 28 SEC. DURATION EACH. FINAL SIGNAL LOSS OCCURRED AT 413 SEC AT AN ANTENNA ELEVATION ANGLE OF 1 DEGREE. NO EXTRASIGNAL RADAR INTERFERENCE WAS EXPERIENCED.

VII. COUNTDOWN

LAUNCH WAS ACCOMPLISHED ON THE SECOND ATTEMPT. THE FIRST COUNTDOWN WAS INITIATED AT 0630 PDT ON 11 JUNE 1963 AND WAS CANCELLED IN TERMINAL COUNT AT 1305 PST DUE TO A PROBLEM ENCOUNTERED DURING SLV-22A ENGINE SLEW CHECKS.

THE FINAL COUNTDOWN WAS INITIATED AT 0800 PDT ON 12 JUNE 1963 AND PROCEEDED TO LIFTOFF WITH NO HOLDS IMPOSED. WORK ON SOME TASKS WAS ABBREVIATED BECAUSE THE VEHICLE WAS PLACED IN A LAUNCH STATUS ON THE PREVIOUS DAY. IN TASK 10 THERE WAS A 10 MIN DELAY DUE TO CONFLICT WITH ANOTHER OPERATION AT PALC 1. TASKS 14 AND 15 WERE DELETED BECAUSE THE



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ORBIT MESSAGE/CONTINUATION SHEET

SECURITY CLASSIFICATION

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FROM:

ORBITAL STAGE HAD BEEN TANKED DURING THE PREVIOUS
COUNTDOWN.

THE AEROSPACE GROUND EQUIPMENT (AGE)

THE AEROSPACE GROUND EQUIPMENT PERFORMED
SATISFACTORILY TO SUPPORT CHECKOUT AND LAUNCH OF
THE VEHICLE. THE FOLLOWING PROBLEMS WERE
ENCOUNTERED:

1. THE AIR CONDITIONING EQUIPMENT DID NOT
MAINTAIN PAYLOAD BLANKET TEMPERATURE WITHIN
TOLERANCE.
2. ONE AGE NITROGEN PRESSURE TRANSDUCER MAL-
FUNCTIONED.
3. TWO GAS PRESSURE REGULATORS ON THE MAIN
REQUIRED REPEATED RESETTING.

III. PAD DAMAGE

PAD DAMAGE WAS NORMAL. REHABILITATION CAN BE
ACCOMPLISHED WITHIN THE TURNAROUND SCHEDULE.

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