

LMSC 8030474
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1-1

JOINT MESSAGEFORM

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

LX11

ACTION	PRECEDENCE	TYPE MSG (Priority)			ACCOUNTING SYMBOL	ORIG OR REFERS TO	CLASSIFICATION OF REFERENCE
		BOOK	MULTI	SINGLE			

6595TH AEROSPACE TEST WING, VANDENBERG AFB, CALIF.

TO: SPACE SYSTEMS DIV, LOSA, CALIF.
VWZD

SUBJECT: EIGHT-HOUR FLASH REPORT

I. SUMMARY VWZD-1-4-132

A VEHICLE CONSISTING OF SLV-2 BOOSTER NO. 376 AND S-ORBITAL STAGE NO. 1160 WAS LAUNCHED ON THE FIRST ATTEMPT FROM VAFB COMPLEX 75-3, PAD 5, AT 1501:00.36 PST ON 1 APRIL 1963. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE S-OLA SATELLITE WITH PAYLOAD IN A NEAR-POLAR ORBIT, WAS ACCOMPLISHED. THE ORBITAL PERIOD APPEARS TO BE NEAR-NOMINAL, BASED ON FIRST PASS ACQUISITION.

II. SIGNIFICANT EVENTS

PRELIMINARY VALUES OF SIGNIFICANT LAUNCH EVENTS ARE:

LIFTOFF (1501:00.36 PST) ZERO

STEERING INITIATED 92.04 SEC

SPECIAL INSTRUCTIONS

CLASSIFICATION CHANGED TO

APR 205-2
12 APR 1966

DOWNGRADED AT 3 YEAR INTERVAL
DECLASSIFIED AFTER 12 YEARS
DD FORM DIRECTIVE 5200.10

SYMBOL		SIGNATURE	
TYPED NAME AND TITLE (Signature, if required) C. S. WALLER, LT. COL. USAF		TYPED (or stamped) NAME AND TITLE	
PHONE 866-3771	PAGE NO.	MONTH	YEAR
SECURITY CLASSIFICATION	NO. OF PAGES	APR 63	

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SECURITY CLASSIFICATION

[REDACTED]

FORM

5545TH AIRSPACE TEST WG, VANDENBERG AFB, CALIF. [REDACTED]

MECO (S1)	146.52	SEC
VECO	154.51	SEC
ENABLE D1 AND D2 (S1)	152.47	SEC
D1 ON	154.17	SEC
D1 OFF	155.51	SEC
D2 ON	158.47	SEC
D2 OFF	159.75	SEC
SEPARATION COMMAND (S1)	161.17	SEC
SEPARATION COMPLETE	163.5	SEC
RELEASE ROCKET IGNITION	181.91	SEC
S-01A ENGINE IGNITION	191.87	SEC
S-01A THRUST ATTAINMENT (90 PER CENT FC)	193.06	SEC
S-01A BURNOUT (70 PER CENT FC)	436.26	SEC
VTS TARGET RADAR FADE	445	SEC
VTS ACQUISITION BALCONY FADE	471	SEC
VTS TELEMETRY DATA FADE (LINK 1)	481	SEC
VTS TELEMETRY DATA FADE (LINK 2)	481	SEC

III. SLY-2 PERFORMANCE

ALL SLY-2 SUB-SYSTEMS PERFORMED ADEQUATELY FOR ACHIEVEMENT OF THE PRIMARY TEST OBJECTIVES.

QUICK-LOG DATA INDICATE THAT ACCEPTABLE BOOSTER

COAST-ROCKET CONDITIONS WERE ATTAINED AND APPROPRIATE

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507TH AIRBORNE FTGT W.G. VANDENBERG AFB, CALIF.

COMMANDS WERE PROVIDED TO THE S-01A. THE TENTATIVE EVALUATION OF COAST ASPECT VELOCITY WAS 10.01 THE ORIGINAL. 10,045 FT/SEC AND OF ALTITUDE WAS 100,000 FT (ORIGINAL: 106,000 FT)

IV. S-01A PERFORMANCE

ALL S-01A VEHICLE SUB-SYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE ADEQUATE TRAJECTORY CONDITIONS FOR ORBITAL INSERTION AT ENGINE SHUTDOWN. AT THE TIME OF TELEMETRY SIGNAL FADE AT 718, THE ORBITAL TIMER WAS SET AT 1439 SEC (STEP 1) IN THE RESET-ON PORTION, IN THE DECREASE MODE, AND ALTERNATE RE-ENTRY HEARM STATE.

V. SPACE-GROUND COMMUNICATIONS

THE NORTH VELLORT RADAR EXPERIENCED DIFFICULTY IN MAINTAINING CONTINUOUS TRACK OF THE VEHICLE DUE TO BEACON CAPTURE BY THE SPO-3 RADAR ON THE DOWN RANGE SHIP.

S-BAND BEACON RESPONSE TO THE SPO-3 RADAR INTERGRATION WAS FIRST SIGHTED ON THE VELLORT RANGE SCOPE AT 1435 SEC. BEACON CAPTURE BY THE SPO-3 WAS REALIZED WHEN THE BEACON RESPONSE TO BOTH INTER-SCANNING RADARS MOVED THROUGH RANGE CHANGE

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6595TH AEROSPACE TEST WG, VANDENBERG AFB, CALIF

THE VERBORT ANTI-BEACON CAPTURE UNIT FAILED TO PREVENT CAPTURE AS THE VERBORT RADAR LOCKED ON TO THE INCORRECT RANGE RESPONSE.

VI. COUNTDOWN

THE COUNTDOWN WAS DETAIATED ON SCHEDULE AT 0640 PST, ON 1 APRIL 1963 AND PROCEEDED TO LIFTOFF AT THE TIME SCHEDULED WITH NO HOLDS BEING IMPOSED. THE FOLLOWING PROBLEMS AND DELAYS WERE ENCOUNTERED.

TASK 2 WAS EXTENDED 30 MIN TO COMPLETE PAYLOAD CHECKS WHICH WERE ORIGINALLY SCHEDULED FOR 2-1 DAY.

IN TASK 7 THE LAUNCH COMPLEX COMMUNICATION SYSTEM WAS INOPERATIVE FOR 30 MIN DUE TO A BROKEN WIRE IN THE BACKBONE COMMUNICATION CIRCUITRY. THE WIRE WAS REPLACED.

WORK ON TASK 14 WAS DELAYED 30 MIN TO AWAIT CLEARANCE FOR LAUNCH BY RANGE SAFETY BECAUSE OF THE HIGH UPPER AIR WIND CONDITIONS.

VII. AEROSPACE GROUND EQUIPMENT

THE AEROSPACE GROUND EQUIPMENT IN GENERAL FUNCTIONED SATISFACTORILY TO ACCOMPLISH THE BOOKING AND ORBITAL STAGE PRE-LAUNCH CHECKS. THE ONLY PROBLEM ENCOUNTERED WAS A BROKEN WIRE IN THE LAUNCH COMPLEX

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FROM

6545TH AIRCRAFT TROOP HQ, VANDEMBERG AFB, CALIF



PUBLIC ADDRESS SYSTEM. THE WIRE WAS REPLACED.

VII. PAD DAMAGE

PAD DAMAGE IS NOT CONSIDERED EXCESSIVE AND
NORMAL TURNAROUND SCHEDULE CAN BE MAINTAINED.

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