

150 B030371, of 5 of 5

JOINT MESSAGEFORM

SECURITY CLASSIFICATION

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

XLVII

|            |                 |       |        |                   |                    |                             |
|------------|-----------------|-------|--------|-------------------|--------------------|-----------------------------|
| PRECEDENCE | TYPE MSG (OROB) |       |        | ACCOUNTING SYMBOL | ORIG. OR REFERS TO | CLASSIFICATION OF REFERENCE |
| ACTION     | HOOK            | MULTI | SINGLE |                   |                    |                             |
| INFO       |                 |       |        |                   |                    |                             |

FROM: 6595 AEROSPACE TEST WG VANDENBERG AFB, CALIF.

TO: SPACE SYSTEMS DIV LOSA CALIF  
 VWZD- ~~1-8-199~~ 1-8-199

SUBJECT: 8- HOUR LAUNCH ELASH REPORT

I. A PROGRAM 622A SATELLITE VEHICLE CONSISTING OF THOR BOOSTER NO. 347 AND AGENA B ORBITAL STAGE NO. 1131 WAS LAUNCHED ON THE FIRST ATTEMPT FROM VAFB COMPLEX 75-3 PAD 4 AT 1730:9. 92 PDT ON JULY 27, 1962. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE AGENA SATELLITE WITH PAYLOAD IN A NEAR-POLAR ORBIT, WAS ACCOMPLISHED. THE VTS RADAR PLOTBOARD INDICATED THE ASCENT TRAJECTORY TO BE NOMINAL THROUGH RADAR TRACK LOSS JUST SUBSEQUENT TO AGENA ENGINE CUTOFF. THE ORBITAL PERIOD ATTAINED APPEARS TO BE SLIGHTLY GREATER THAN NOMINAL, BASED ON FIRST PASS ACQUISITION AT KODI.

SPECIAL INSTRUCTIONS

By Authority of *[Signature]*  
 AFPR 205-2  
 APR 1966

CLASSIFICATION CHANGED TO

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

|       |      |
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| DATE  | TIME |
| MONTH | YEAR |

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|---|-----------------------------------|--------------|
| SYMBOL  | SIGNATURE                         |              |
| TYPED NAME AND TITLE (Signature, if required) | TYPED (or stamped) NAME AND TITLE |              |
| PHONE: Walker, Lt. Col. USAF                  | NR.                               | NR. OF PAGES |
| SECURITY CLASSIFICATION                       |                                   |              |

DOWNGRADED AT 3 YEAR INTERVAL  
 DECLASSIFIED AFTER 12 YEARS  
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**PRELIMINARY VALUES OF SIGNIFICANT LAUNCH EVENTS ARE:**

|   |            |
|---|------------|
| LIFTOFF (1730:9.92 PDT)                     | ZERO       |
| STEERING INFLATED                           | 9.77 SEC   |
| MECO (S1)                                   | 143.38 SEC |
| VECO  | 152.33 SEC |
| ENABLE D1 AND D2 (S2)                       | 146.41 SEC |
| D1 ON                                       | 151.11 SEC |
| D1 OFF                                      | 154.15 SEC |
| D2 ON                                       | 154.26 SEC |
| D2 OFF                                      | 155.58 SEC |
| SEPARATION COMMAND (S3)                     | 158.15 SEC |
| SEPARATION COMPLETE                         | 160.70 SEC |
| ULLAGE ROCKET IGNITION                      | 174.13 SEC |
| AGENA ENGINE IGNITION                       | 187.16 SEC |
| AGENA THRUST ATTAINMENT<br>(90 PER CENT PC) | 188.38 SEC |
| AGENA BURNOUT (COMMANDED BY<br>INTEGRATOR)  | 430.86 SEC |
| AGENA LINK 2 TELEMETRY FADE                 | 486 SEC    |
| VTS VERLORT RADAR FADE                      | 446 SEC    |
| VTS ACQUISITION BEACON FADE                 | 486 SEC    |
| VTS TELEMETRY DATA FADE<br>(LINK 1)         | 486 SEC    |

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PAGE  
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NR OF  
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II. ALL BOOSTER SUBSYSTEMS PERFORMED SATISFACTORILY AND, IN RESPONSE TO GROUND GUIDANCE SYSTEM COMMANDS, PROVIDED THE REQUIRED COAST APOGEE CONDITIONS AND ATTITUDE AT SEPARATION.

GROUND GUIDANCE SYSTEM DATA INDICATE THAT BOOSTER COAST APOGEE ALTITUDE WAS 106.46 NM (NOMINAL: 106.83 NM) AND THE VELOCITY WAS 10,078 FPS (NOMINAL: 10,074 FPS).

III. ALL AGENA VEHICLE SUBSYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE THE PROPER TRAJECTORY CONDITIONS AT AGENA ENGINE SHUTDOWN AND NO SIGNIFICANT DISCREPANCIES WERE NOTED.

AT THE TIME OF SIGNAL FADE AT VTS, ALL VEHICLE SUBSYSTEMS WERE FUNCTIONING NORMALLY WITH AN ADEQUATE SUPPLY OF CONTROL GAS REMAINING AND THE ORBITAL TIMER WAS SET AT 5428 SEC (STEP 18), IN THE RESET-ON POSITION, IN THE INCREASE MODE, AND ALTERNATE RE-ENTRY DISARM STATE.

IV. THE AEROSPACE GROUND EQUIPMENT FUNCTIONED PROPERLY TO ACCOMPLISH BOOSTER AND ORBITAL STAGE PRE-LAUNCH CHECKOUT; HOWEVER, IN TASK 7 THE PAD WATER DELUGE SYSTEM FAILED WET AND FLOODED THE PAD WHEN A SOLENOID VALVE IN THE SYSTEM ACTUATED. THE

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PAGE

NR

3

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**SOLINOID AND THE BATTERY WHICH SUPPLIES POWER TO THE SYSTEM WERE REPLACED. LMSC WIRING AND EQUIPMENT AT THE LAUNCHER BASE BECAME WET AND ALL AGENA CONTROL SYSTEM MONITORING FUNCTIONS WERE LOST. THE WIRING AND EQUIPMENT WAS DRIED WITH HOT AIR AND NORMAL OPERATION RESTORED.**

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**V. THE COUNTDOWN WAS INITIATED AT 1900 PDT AND PROGRESSED TO LIFTOFF WITH NO HOLDS.**

**THE FOLLOWING TECHNICAL DIFFICULTIES WERE ENCOUNTERED:**

- A. THE PAD DELUGE SYSTEM FAILED WET.**
- B. THE ORBITAL TIMER FAILED TO START WHEN COMMANDED IN TASK 7. THE SECOND ATTEMPT WAS SUCCESSFUL.**

**PAD DAMAGE WAS NORMAL AND THE TURN AROUND SCHEDULE CAN BE MAINTAINED.**

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NR OF PAGES

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