

PROGRAM 162

MISSILE: Thrust Augmented Thor 354/Agena 1159

LAUNCHED: 1348 PST, 28 February 1963, Pad 5

COUNTDOWN HISTORY:

1. First Attempt: The countdown was initiated at 0355 PST on 27 Feb 63, and was cancelled due to a problem in the solid booster circuitry.
2. Second Attempt: The count was initiated at 0355 PST on 28 Feb 63 and proceeded to liftoff with one hold imposed at T-15 minutes for a duration of 48 minutes due to an Agena AGE oxidizer pump problem and range clearance.

FLIGHT PERFORMANCE:

<u>Event</u>	<u>Predicted Time</u>	<u>Actual Time</u>
1. MECO	148.5	Vehicle breakup occurred at T-127 seconds
VECO	157.5	
Separation	161.5	
Ignition	170.8	
Burnout	410.4	

2. Agena Airborne Systems: Performance was satisfactory until termination of flight.

Thor Airborne Systems: Solid motor No. 2 did not ignite at liftoff and did not jettison as planned at T+70 seconds. Complete loss of control at approximately T+100 seconds resulted in vehicle breakup and destruction at approximately T+127 seconds.

3.

	<u>Predicted</u>	<u>Actual</u>
MECO Inertial Velocity	12,344 fps	Orbit was not achieved
Injection Inertial Velocity	25,893 fps	" " " "
Apogee	249.3 N.M.	" " " "
Perigee	90.3 N.M.	" " " "
Period	90.72 min	" " " "
Inclination Angle	74.99 deg	" " " "

AEROSPACE GROUND EQUIPMENT PERFORMANCE:

Both Thor and Agena AGE performed satisfactory.

DOWNGRADED AT 3 YEAR INTERVALS,
CLASSIFIED AFTER 12 YEARS
DOD DIRECTIVE 5200.10

REMARKS:

1. This was the first TAT to be launched.
2. This was the first known combination of liquid plus solid boosters.

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