Translation (1)

SECRET

OFFICE OF DEFENSE

April 27, 1959

MEMO FOR

Mr. Albert P. Toner

The White House

The attached items are submitted by the Department of Defense for possible inclusion in the daily summary for the President.

Items 1 through 4 have also been sent to Dr. Killian.

O. M. Gale
Special Assistant

Attachments

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SecDes Cont. No.5-629

WHEN WITH ATTACHMENTS

5,30p

(Mr. T -)

4/27

see Item #4 - I handcarried the original to G
late. (Didn't have the opportunity
to get it thermofaxed for CHR in
event you use it further).

See Items #1 and #2 - Took the liberty of preparing SSN on these since Goodpaster's office was still open, and one is for tomorrow (launching, that is).

Mrs. Hope will call first thing in morning re Item #2, whether E means EDT or EST.

(our)

CHR:

4/27

See Mr. T's xriginals Defense of 4/27 for Item #4 (I did not have the jopportunity to get it thermofaxed since I was along - I carried the original to G; alsong with SSN made from Items #1 and #2.

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Also Mss. Hope is to call first thing in morning and say whether E is EDT or EST - see Item #2 - AND WE SHOULD TELL ALICE.

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I assumed EDT, but asked her to check for sure. Alice should be notified as soon as we know and our copy and VP copy clarified.

STY

THE WHITE HOUL-

April 27, 1959

To: General Goodpaster

From: A. P. Toner

Ref: Memo of 4/27 on DIS-

COVERER II

This is the full contents from Defense.

Attachment
Orig. Item #4 of DOD 4/27/59.

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1. JUPITER Missile Firing (Secret)

Sixteenth JUPITER missile (Missile No. 17) is scheduled for firing from Atlantic Missile Range at 2030 EDT, 29 April.

Primary missions of this firing include sixth flight test of warhead and fuze working together as a system. This is the third flight test of warhead with dual radar fuze and the first flight of full weight warhead (1600 pounds).

Lift off weight is planned at lll, 354 pounds, and range at 1302. 4 nautical miles.

2. Important Missile Launching (Secret)

Atlantic Missile Range

TITAN (A-6)

Test No. 762

Date and Time

28 April, 1200 E

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3. Launch of THOR Missile No. 164 (Secret) (Reference Item 1, April 21, 1959 Report)

THOR Missile No. 164 was launched on the Atlantic Missile Range at 0005 E, 25 April 1959.

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Major test objectives were to evaluate missile system accuracy and reliability; to determine performance of RV arming and fuzing system; to determine warhead performance and compatibility with the re-entry vehicle and missile system during flight and at impact. Missile No. 164 was in an operational configuration with instrumentation added. Recovery was not planned.

Ignition and lift off were normal. Main engine cut off on guidance command at 157 seconds; verniers cut off 5.9 seconds later. The re-entry vehicle separated approximately 172 seconds after lift off, concurrent with firing of retro rockets. All of the above times are close to nominal. The re-entry vehicle landed in the intended impact area approximately 1300 n.m. downrange. Details on accuracy will be provided in approximately five days after all relevant data are analyzed.

All text objectives will be evaluated from telemetry, radar and ballistic camera data. From the preliminary flash test report this appears to have been a completely successful launch.

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4. DISCOVERER II Recovery Capsule and Finale of Vehicle (Secret) (Reference Item 2, April 23, 1959 Report)

DISCOVERER II recovery capsule was approximately hemis pherical in shape, 12 3/4 inches radius, 18 inches deep. It contained recovery equipment, life cell equipment and radiation film packs.

The life cell equipment included a magnesium container consisting of Air Conditioner, fan, oxygen system, telemetry transducers, small motors and life simulation thermo-couples. Weight of life cell was 15 pounds.

The recovery equipment included VHF Beacon, batteries, dye marker, flashing light and programmer to control beacon, flashing light and deployment of a 16 ft. parachute. Weight of recovery equipment was 45 pounds.

Several pounds of emulsion film packs were carried to measure cosmic radiation. The film packs require recovery with analysis under laboratory conditions.

If the Soviets should have recovered this capsule, none of the above would give them anything likely to be more advanced than their present knowledge. However, from such bits of evidence as the marks of the explosion made for separation of the capsule from the vehicle, and the explosion made by the retroactive rocket, from springs and from the accelerometer with a wire leading to the package that releases the parachute, they might be able to reconstruct our sophisticated system of ejection and, thus, increase their knowledge.

Project SPACE TRACK has reported that DISCOVERER II, the vehicle itself, is no longer in orbit with probable "burn-in" early on turn 206 prior to 1140 EST on April 26, 1959. Observational data was solid through turn 203, including a South Pole Station sighting. Period on last observed turn was 87.6 minutes, considered to be very close to critical point with further reduction in period resulting in heating to ignition level and consequent destruction. Conclusion that DISCOVERER II was definitely down was reached at 1140 EST on 26 April, when Millstone radar, well within range of orbit turn 206,

failed to detect passage of the vehicle.

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DISCOVERER. Before it is the particular in the DISCOVERER II capsule that would be particularly useful to the Soviets is the sophisticated ejection system which we believe to be superior to any system that they possess. We believe that the Soviets have instruments similar to the remainder of those contained in the capsule (eg., a horizon scarmer for stabilizing the capsule; a film pack for measuring accumulated radiation). They would be able to deduce from the capsule the radion frequency on which information was transmitted, but we can of course, change frequencies in the future tests.

an automatic ejector in the capsule and them next time the restaur ejector will only function if the satellite is on exact schedule and satellite is off course.

(Note: Above information via phone from Gale to Russell 4/27/59 - per

Maj. Eisenhower's request to APT for info. on 4/25/59 (Saturday)

for the P. written report from Defense will follow.)

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