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MEMORANDUM FOR DR. CHARYK

SUBJECT: Vehicle 2312, 698BK

This information relates to the second flight of the 698BK (102) program currently scheduled for 16 June 1962. This flight is nominally an eight-day operation.

VEHICLE

Thor DM-21/334
Agena B No. 2312
Payload Group 2 (Bands 1, 3a and 8)

LAUNCH

Site VAFB, Complex 75-3, Pad 5
Launch Window 1208 - 1315 PDT (1508 - 1615 EDT)
Nominal Launch Time 1208 PDT
Launch Azimuth 172°E of N

ASCENT TRAJECTORY TIMES

<u>Event</u>	<u>Sec. After Lift-off</u>
MECO	148.25
VECO	157.27
Agena Separation	168.25
First Burn	
Agena Ignition	209.0
Agena Cut-off	448.4
Second Burn	
Agena Ignition	3166.0
Agena Cut-off	3167.76

First Injection Coordinates	21.8°N - 119°W
First Injection Altitude	80.1NM
Second Injection Coordinates	19.9°S - 48.9°E
Second Injection Altitude	201.05NM

DOWNGRADED AT 10 YEAR INTERVALS;
NOT AUTOMATICALLY DECLASSIFIED
DOD DIR. 5800.10.

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ORBITAL ELEMENTS (NOMINAL)

Period - 92.26 Mln.
Altitude - 210 NM
Regression - 23.12^{OW} per pass
Inclination - 82^O (\neq 1^O)
Eccentricity - Less than .01
Active Life - 8.8 days
Weight on orbit - 2500 lbs.

AREA COVERAGE

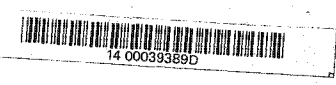
Essentially 100% one-time coverage attained after four days mission life.

DOWNGRADED AT 10 YEAR INTERVALS;
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~~SECRET~~ NORFOLK CAPELLA NO. 4. FOR FTV 2312, FOR COL HERRON.

1. FTV 2312 LOST ALL CONTROL GAS ON REVOLUTION 25, AND THE VEHICLE IS PRESENTLY TUNELING SLOWLY. THE 23 VOLT UNREGULATED POWER IS HOLDING NOMINAL AND IS EXPECTED TO LAST THREE MORE DAYS. PAYLOAD CLOCK BECAME UNRELIABLE ON REVOLUTION 2 AND REMAINS IN THAT CONDITION, DUE TO A SUSPECTED SHORT CIRCUIT IN BAND 1 /S-BAND/ OF VEHICLE PAYLOAD. THIS SHORT CIRCUIT WHICH LASTS FOR SEVEN SECONDS OF THE TEN SECOND PAYLOAD SCAN IS CAUSING THE 115 VOLT /2000 CPS/ INVERTER VOLTAGE TO DROP TO 68 VOLTS. THIS DROP CAUSES THE 23 VDC REGULATED TO GO TO UNREGULATED AND THE MINUS 23 VDC TO DROP TO 20 VOLT. THIS CONDITION CAUSES MALFUNCTION OF PAYLOAD LOGIC AND VEHICLE CLOCK.

2. PAYLOAD SUMMARY. THERE WERE MORE THAN 9000 TOTAL WORDS ON REV 2, THE FIRST 7300 OF WHICH WERE VERY GOOD. AFTER 7300 WORDS PAYLOAD CLOCK WENT UNRELIABLE. ON PASS SIX THERE WERE 10,000 WORDS, MANY DROP OUT WORDS, CLOCK REMAINED BAD, AND MANY WORDS WERE RESULT OF NOISE. PASS 5, 15, AND 16 HAD ALMOST NO VALID INTERCEPTS FOR SAME REASONS. RESULTS OF PASSES 9 AND 7 HAVE NOT BEEN EXAMINED THOROUGHLY, BUT FIRST GLANCE INDICATES THAT THESE ARE VERY POOR. AS OF REVOLUTION 43 READOUTS ARE STILL BEING COMMANDED, HOWEVER NO GOOD RESULTS ARE EXPECTED. THE TELEMETRY AND DATA TRANSMITTERS ARE STILL WORKING AND OPERATIONS WILL CONTINUE AS LONG AS POSSIBLE.
SCP-3.

BT
21/1635Z JUN SAFF

6121/91

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