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BECRET 240018Z WAY 72 CITE CHARGE 2858. THI G GAMBIT/CORONA DELIVER OBOOL REDNESDAY FOR DR. MCLUCAS, INFO D. BRADBURN. FROM L. ALLEN SUBJECTS GAMBIT MISSION 4335 & GAMBIT MISSICH 4335 WAS LAUNCHED AT 1730Z. 20 PAY 1972. THE TITAN 111-8 PERFORMED AS EXPECTED AND THE ASCENT EVENTS OCCURRED WITHIN THE SPECIFICATION TOLERANCES. THE AGENA SEPARATED NOMINALLY FROM THE STAGE IT OF THE TITAN. THE ECS CLOCK WAS STARTED. MID THE HORIZON SENSOR COVERS WERE BLOWN. DURING THE SHORT COAST AFTER SEPARATION. THE AGENA ASCENT QUIDANCE SYSTEM ATTEMPTED TO ESTABLISH PROPER VEHICLE! EARTH ORIENTATION BUT WAS NOT SUCCESSFUL. THE AGENA MAIN ENGINE FIRED AS PROGRAMED, BUT TITH AN ERRONEOUS VEHICLE ORIENTATION. AS A RESULT. THE VEHICLE WAS NOT INJECTED INTO ORBIT.

ELLLE VAL

PAGE 2 CHARGE 2858. SECRET

2. PRELIMINARY ANALYSIS INDICATES THAT THE AUGMENTED CONTROL
SYSTEM (ACS), WHICH CONTROLS THE AGENA VEHICLE ATTITUDE DURING
ASCENT, FAILED TO PROVIDE ATTITUDE CONTROL GAS TO ITS THRUST
VALVES. (NO GAS USED FROM AGENA SUPPLY.) INITIAL FAILURE ANALYSIS
HAS IDENTIFIED TWO COMPONENTS WHOSE FAILURE WOULD PRECLUDE
ATTITUDE CONTROL GAS FROM REACHING THE THRUST
VALVES. THEY ARE THE ACS NITROGEN REGULATOR AND THE
ACS LATCHING SOLENOID VALVE (LSV). DURING INITIAL HIGH
PRESSURE PYRO CELL TESTING THESE COMPONENTS ARE KNOWN
TO HAVE FUNCTIONED PROPERLY. ALL SUBSEQUENT TESTING
TELEWETRY AND FLIGHT TELEVETRY DATA FOR THESE TWO
COMPONENTS IS NORMAL. HOWEVER, A PRELIMINARY REVIEW

F AUXILIARY FACTORY DATAPPROVED for Release: 2021/03/23 C05133139

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WESTING INDICATES THAT PRESSURE IN THE SUPPLY TANKS
DID NOT DROP WHEN THE THRUSTERS WERE PULSED EVEN
HOUGH THE TELEVETRY SHORS PROPER OPERATION OF
THE ACS REGULATOR, LSV. AND THRUSTERS. THUS THE FAILURE
WHICH OCCURED BETWEEN HIGH PRESSURE CELL TESTING & ACS SYSTEM
TESTING REMAINED UNDETECTED DURING SUBSEQUENT FACTORY AND PAD
SYSTEM TESTING. DETAIL FAILURE ANALYSIS AND DATA
EVALUATION IS STILL IN PROGRESS.

3. PRELIMINARY ANALYSIS INDICATES THAT THE MOST
PROBABLE IMPACT POINT OF THE PHOTOGRAPHIC SATELLITE

PAGE 3 CHARGE 2858. S E C R E T VEHICLE WAS IN A BROAD PACIFIC OCEAN AREA ALONG THE LAUNCH AZIMUTH OF 208 DEGREES. DE THE CORONA AGENA WHICH UTILIZES A SIMILAR REGULATOR BUT WITHOUT THE LSY IS INSTRUMENTED IN A DIFFERENT MAMMER AND GAS PRESSURE ON BOTH SIDES OF THE REGULATOR IS MEASURED DIRECTLY. ALL RECORDS AND TESTS ON THIS AGENA SHOW THAT ITS RECULATOR IS CPERATING PROPERLY. PH ADDITION DURING NORMAL AND SPECIAL TESTS CONDUCTED AT VAFB SINCE THE GAMBIT FAILURE WE HAVE DETERMINED THAT THE REGULATOR IS IN THE PROPER MODE FOR LAUNCH AND THERE IS PHYSICAL EVICENCE THAT THE ENTIRE PNEUMATIC SYSTEM IS FUNCTIONING PROPERLY. ALTHOUGH I AM CONFIDENT THAT THIS SYSTEM IS READY FOR LAUNCH. I HAVE HELD THE LAUNCH FOR AS HOURS TO PERMIT THE CONTRACTOR ADDITIONAL TIME FOR FAILURE ANALYSIS. RECORD CHECKS. AND DATA REVIEW PRIOR TO INITIATION OF THE COUNTDOWN. I WILL CONDUCT A DETAILED REVIEW OITH HIM ON 24 MAY. 866867

