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- 1. THERE IS NO DEVISE ON VEHICLE THAT PROVIDES DIRECT VEHICLE ATTITUDE TO THE GPOUND OBSERVER. THERE ARE SEVERAL ITEMS THAT WILL NORMALLY INDICATE WHETHER THE VEHICLE IS IN AN ARMORMAL OF NORMAL ATTITUDE. THESE ITEMS WILL NOT INDICATE TO ANY DEGREE OF ACCURACY WHAT THE VEHICLE ATTITUDE IS IF IT IS APNORMAL.
- O. ABMODMAL OF MORMAL ATTITUDE CAN BE INDICATED BY THE FOLLOWING
 - 1. HOPIZOM SENSOPS
 - 3. GAS CONSUMPTION
 - 3. GYROS
 - 4. TEMPT OF GAS JETS
 - 5. TEMPT OF VAPIOUS PAPTS OF VEHICLE
 - S. MAGNOTOMETERS
- 3. IN REF MISSION THESE WAS AN INDICATION FROM A "PIGGY BACK" SENSOP (THIS ITEM HAD NO CONTROL FUNCTION AND WAS IN A 93D TEST STATUS) THAT VEHICLE ATTITUDE WAS NOT NORMAL. CONSIDERING THIS AN EVALUATION WAS MADE OF THE ITEMS PARA 2. THE WEIGHT OF OPINION WAS THAT THE "PIGGY BACK" ITEM WAS INCORRECT.
- 4. THE ITEMS (HOPIZON SENSORS) THAT APE NOPMALLY USED TO INDICATE NORMAL OF APNOPMAL ATTITUDE FAILED IN SUCH A MANNER THAT ALL T/M INDICATIONS WERE THAT THE VEHICLE ATTITUDE WAS NORMAL. THE FAILURE WAS COMMON TO BOTH SENSORS SO NO ERROR SIGNALS WERE INTRODUCED. GAS CONSUMPTION WAS CERTAINLY NORMAL AS WERE THE TEMPETURES. THE ONLY ITEM THAT INDICATED APNORMALITY WERE THE MAGNITUMETERS AND THIS FACT WAS NOT KNOWN UNTIL AFTER RECOVERY. REDUCTION OF MAGNITUMETER DATA IS NOT ON A REAL TIME PASSE. ALSO MAGNITUMETER DATA IS SUBJECT TO MANY INTERPERTATIONS.
- 5. IT SHOULD OF UNDERSTOOD THAT NO GROUND ACTION CAN BE TAKEN TO CORRECT AN ARMORMAL ATTITUDE IN FLIGHT. HOWEVERY UNDER MOST COMPITIONS LIFEROAT SYSTEM CAN BE USED DURING RECOVERY PHASE TO COMPENSATE FOR AN ABNORMAL ATTITUDE.
- 6. IF MOS INTERESTED IN THE TECHNICAL ASPECTS OF WHAT FAILED REF MISSION PLEASE ADVISE.

TOP SECRET

Declassified and Released by the NRO

In Accordance with E. O. 12958

on NOV 26 1831