

Status 7106:

7106ALPHA has been through Vibration, and RFI tests successfully and is ready for Thermal-Vacuum test. ALL systems are GO. ~~SECRET~~ <sup>HANDLE VIA BYEMAN</sup>

BRAVO has been in RFI for over a week and one very tenacious problem seems to have been ironed out, @ 158 mc spurious responses.....it still has to go through Vibration tests but little trouble is anticipated.

CHARLIE subsystems are 75 to 80% completed and it is partially assembled for the System Temperature tests.

DELTA subsystems are about 33% finished and the wiring harness is completed to fasten all subsystems into the flight structure.

Gravity Gradient Systems (GGs): Flight booms are expected to arrive at NRL for three payloads, (A, C & D) about 10 days from now. These have not remained as the pacing items, it is the system for 7106B, from Westinghouse which is the late one and it represents another step forward in the design effort toward GGS systems.

RETEP: system bandwidth has been reduced by redesign of the filter so that the effective sensitivity has been raised by about 6 db. This will result in lower site-transmitter power or less transmitter antenna gain, or a combination of both. But more importantly it will reduce the interference from nearby, offending Television signals etc. As you recall the spacecraft recognizer depends upon RF Frequency, and PULSE Width both for acceptance of the RETEP signal before a response will be transponded.

Computer system enhancement now underway....By the addition of a \$50K Fixed-Head type Disc Recorder unit and some new software, the computer system can in the near future be used by more than one analyst at the same time. This is being developed so that the various elements of the WEAPONS SYSTEMS can be analyzed simultaneously, thus enhancing the small computer toward the larger job of the future...sifting the total End-Product out of the wide spectral coverage available from the 7106 system.

Need for improved facilities (Building space) in [ ] site is no surprise but it is never the less vital toward the effective use of the system and continued operational accomplishments. Without relief of more operational space, the transplant will certainly fail and the patient will expire. Seriously the site is not up to the job ahead unless the relief of more space is added and quick...temporary modification of the building is called for unless emergency construction of a new building can be accomplished before Xmas time 1969. If this new building will take longer then it calls for emergency action NOW and FAST!!

~~SECRET~~

HANDLE VIA BYEMAN  
CONTROL SYSTEM ONLY

*Handle via Keyhole  
Control Channel Only*  
~~SECRET~~ <sup>HANDLE VIA BYEMAN</sup>