Attn: Robert Perram
From: Lou Wheatcraft
Subject: DSPSE Status Meeting - 4 May 1994
c: File

A DSPSE status meeting was held at 1000 (EDT) at the BATCAVE on 4 May 1994 and chaired by Don Horan. This meeting discussed spacecraft activities from 1000 on 5/3/94 to 1000 on 5/4/94. This memorandum briefly summarizes the results of the meeting.

**Engineering**

Spacecraft systems are nominal at this time. The RCS tank pressures are at 239 psi and the battery is fully charged.

The LOD burn was completed successfully last night, but occurred one orbit later than planned because of a problem uncovered on the DOTB while verifying the script. The LOD burn script was based on an earlier, successful burn script, but for this burn the DOTB simulation resulted in a tumbling spacecraft and the burn was canceled. In going to Jets Tight, Min Mode was selected which only uses the 1 lb thrusters. Jets Tight Max Mode adds in the 5 lb thrusters along with the 1 lb thrusters. In this mode the simulation worked fine.

The console engineer has noticed a problem with the B solar array (-Y) in that it does not always track the Sun like it should (appears to be stuck). There may be a problem with the Sun detector C cells on the back of the solar array. We will be watching this closer to get a better understanding of the problem.

Following the LOD there are 62.45 lbs of usable RCS fuel and 10.74 lbs of ACS fuel.

**Flight Software**

About an hour after LOD, while trying to upload the lunar observation scripts, the HKP did another soft reset. We are not sure why, but it happened while interfacing with the memory manager with a command we have used many times before. We will look into this to see if we can explain what happened.

We have uploaded the new SIP software containing new autoexposure, centroiding and limb detection code. Because there is no LOD correction burn required, we will begin uploading the new GNC ADAC 1300 software into the HKP in preparation for the closed loop tracking test.

We need to test the new DHU 253 software and get it uploaded to fix the filter wheel and timing problems between the DHU and sensors.

**TAMP**

Both JPL and GSFC have provided us with burn results and the burn appears to have been 0.3% hot and the angular error only .35°. It was a very good burn and no correction burn will be required. TAMP had preliminary burn times for the next few burns, but they still need to be optimized. It appears the delta V budget will not be affected by more than 1 or 2 m/s. We had
some problems with the Goldstone tracking data, but are getting good data now.

**Sensors**

The sensors have not been used for the last 24 hours.

**Schedule**

DSN schedule will have to be fine tuned because of the changes in view times caused by the delay in LOD. We will begin this as soon as we have a new trajectory file from TAMP.