MEMORANDUM

Attn: Robert Perram
From: Lou Wheatcraft
Subject: DSPSE Status Meeting - 3 May 1994
cc: File

A DSPSE status meeting was held at 1000 (EDT) at the BATCAVE on 3 May 1994 and chaired by Don Horan. This meeting discussed spacecraft activities from 1000 on 5/2/94 to 1000 on 5/3/94. This memorandum briefly summarizes the results of the meeting.

Engineering

Spacecraft systems continue to be nominal at this time. The RCS tank pressures have decreased to approximately 260 to 261 psi. and the battery is fully charged.

It was an eventful night and, in spite of all our efforts, we still had a momentum dump at the end of orbit 346 because of a quaternion table timing problem caused by an error in one of the scripts. In addition, 1 hour before orbit 347 imaging while uploading the orbit 347 scripts, we had a CRITEO reset of the HKP, DHU, and SIP.

Flight Software

We have recovered from the resets and the delta V software is running. TAMP will have the final maneuver plan to us by noon and we should have the DOTB testing complete by 14:00 and should be able to upload the final LOD burn scripts at that time. The only activities scheduled from now until the LOD will be attitude changes for thermal and communications reasons and to go to the burn attitude.

We will start downlinking IDC data 45 minutes before the burn and will open the latch valves at that time. IDC will remain active until 15 minutes after the burn to allow time to re acquire downlink following the RF occultation so we can determine the status of the burn.

TAMP

We will have 2 good revs of tracking data for planning the LOD final maneuver plan. The burn is still on for 22:24:30 GMT and will last for 4 min 30 sec and will be a 439.9 m/s burn.

Sensors

The sensors have operated with no new problems. We are building new exposure and sequence tables for post LOD imaging.

SMOP

Stereographic imaging for orbits 345 and 346 worked OK. The luminescence experiment went OK except for the script error at the end of the orbit causing the momentum dump. Because of the HKP reset, we did not do any imaging on orbit 347 and did not collect the Earth set and Earth rise images, do the 8 Hz LIDAR test, or recover data for orbit 232 ground track. On orbit 348 we did complete the data recovery for orbit 232. This was the last lunar imaging before the LOD.
We are planning on doing lunar imaging starting one hour after LOD.

Schedule

DSN schedule is in place to support the LOD, and Canberra will be contacted to let them know the criticality of the burn.