A DSPSE status meeting was held at 1000 (EST) at the BATCAVE on 23 February 1994 and chaired by Don Horan. This meeting summarized spacecraft activities from 1000 on 2/22/94 to 1000 on 2/23/94. This memorandum briefly summarizes the results of the meeting.

**Engineering.**

The startracker failed to make matches in the star field because of apparent debris in the field of view. This anomaly resulted in no startracker quaternions being produced for the ACS. This anomaly was observed to start at about 2324 GMT and continued for 30 to 45 minutes. It was conjectured that this problem might have been caused by debris left from the burns we have done. We will monitor the startrackers carefully at periodic intervals to see if this reoccurs.

There was a DHU reset and we had to reload our sequence tables and DHU software. This took about 10 minutes. The cause of the reset is unknown.

There still is good news in that no momentum dumps have been observed and reaction wheel speeds look good.

The spacecraft clock continues to be updated daily. The time skew problem brought on by slewing the vehicle continues to be worked on the DOTB.

**TAMP.**

The LOI2C burn was about 2% more than expected. This is consistent with the RCS going to backup mode during the burn.

We are now in our mapping orbit with an altitude at periselene of 382 km. and an altitude at aposelene of 2971 km. The period is about 4 hours and 58 minutes. TAMP expects the altitude of periselene to increase each day until we do our maintenance burn (currently scheduled for March 9).

**Sensors**

- **Laser Ranger**

The bias adjustment for the laser ranger was set to OFF during the earlier ranging attempts. The bias has been set to OFF since the SRM observation, which required that
setting because the SRM was so close. It should be set to ON for lunar surface ranging. This could be the cause of the noisy ranging measurements noted yesterday. We will conduct another ranging test on Orbit 17 with the bias adjustment set to ON.

**Test Results.**

- The "Point and Stare" test on orbit 14 worked fine. Four different locations were used. The accuracy of the pointing is being analyzed. The "Point and Stare" will be used to observe the Apollo landing sites.

- The infrared test -- where we will image the IR cameras on the surface then stare into deep space -- was conducted and good images were received. The results are being analyzed for IR performance.

- **Lunar Mapping Rehearsal (Sorensen)**

  On orbit 12 a full rehearsal of the type B orbit was accomplished. All scripts executed fine and excellent images were taken. Orbit 13 was canceled to provide the flight software people some time on the DOTB.

  On orbit number 17 there will be a laser ranging test which will bracket the perilune ±10 degrees of latitude. Orbit 17 will also have flat field testing of the cameras.

**Other Discussion Items.**

The Apollo 17 landing site will be imaged on mapping orbit 25, which starts at 1019 GMT on 2/25/94. The imaging of the Apollo 11 site will occur on mapping orbit 27, which starts at 2016 GMT on 2/25/94. The Apollo 16 site will be observed on mapping orbits 30 and 31, which start at 1111 GMT and 1610 GMT respectively on 2/26/94.