A DSPSE status meeting was held at 1000 (EDT) at the BATCAVE on 22 April 1994 and chaired by Don Horan. This meeting discussed spacecraft activities from 1000 on 4/21/94 to 1000 on 4/22/94. This memorandum briefly summarizes the results of the meeting.

**Engineering**

Spacecraft systems continue to be nominal at this time. There were no resets. All temperatures and pressures are within limits, but are increasing because of the present phase of the Moon. We are out of the shadows and the battery is staying charged. We will probably schedule a discharge test after LOD to determine if the fully charged set point needs to be changed.

There was a problem with one of the scripts last night which caused a slew to be commanded while another slew was in progress. This resulted in high reaction wheel speeds and caused the onboard software to automatically do a momentum dump. However, the speeds increased again and a second dump was performed. The Engineer then disabled momentum dumping and commanded “Jets Closed Loop” which fixed the problem. No data was lost. Because ACS fuel was used, the spacecraft mass will be recalculated and provided to TAMP for maneuver planning.

IMU#1 (Litton) Z axis drift has changed slightly. The drift is now approximately 11.5 to 12 degrees/hour.

**Flight Software**

Other than the momentum dumps last night, there were no other problems. Autoscheduler software is being tested in the DOTB and should be ready to support a test on orbit 303.

Bob Stapleford, Bob Reisse, and Triet Tran met yesterday and finalized the requirements for an extended source centroiding algorithm. This algorithm will have two modes, intensity or area. Bob Stapleford will code and test it and have it ready for the asteroid flyby tracking test scheduled on 5 May.

**TAMP**

The spacecraft orbit and overlaps are looking good and are within specification as near as we can tell. The momentum dumps will have affected our orbit and we need a new orbit determination from GSFC. We are getting good tracking data. When GSFC delivered yesterday’s orbit determination, they said they have been directed to not support Clementine any more. This is a funding issue and is being worked by management. TAMP feels we will get another OD today but are not sure of this weekend. The momentum dumps also invalidated the ephemeris data we supplied JPL yesterday for the bistatic radar (BSR) tests. In addition, during the BSR tests
scheduled for Saturday, ranging data will only be collected for orbit 300, small portions of 299 and 301, and none for orbit 302.

GOES is planning maneuvers on 23, 25, and 27 April and 2 and 4 May. The maneuver on 23 April has been included in our planning, as will the others. The maneuver on 4 May is close to our Post LOD trim burn and may have some effect if there is a conflict for DSN support.

**Sensors**

LLNL thinks they have fixed all the problems with the sequence tables used for systematic mapping. However, now that systematic mapping is almost complete, the next big effort will be to develop the proper sequence tables to support all the special observations being planned in the post mapping phase.

There are also funding issues with LLNL affecting their ability to support data analysis to provide required pre-launch sensor calibration data.

**SMOP**

Imaging and data transmission have been completed for orbits 290 through 294. We are ready to transmit orbit 295 SSDR data. We are entering RF occultation periods which cause the SSDR transmissions to be split into two periods around the occultation. Orbit 297 marks the end of systematic mapping. GOES is doing another burn tomorrow just before orbit 301. We have included this in our planning and orbit 301 will be accomplished by scripts in the blind with no uplink or downlink for a little over 2 hours. Orbits 299 - 302 will accomplish BSR, Apollo 15, and orbits 35 and 36 data recovery activities. Orbit 303 will be the first autoscheduler test, and orbits 304 and 305 will be collecting images to improve data quality from the start of systematic mapping.

The north pole mosaic script was aborted again because of the script problem and the excessive reaction wheel speeds. We will attempt it again on orbit 305. Flat field images will be taken on orbit 309.

We are examining all the data to locate data gaps. If possible, we will then schedule time to recover any missing images.

**Schedule**

GOES is still planning burns (see discussions above). Other than conflicts due to the GOES support, there are no problems.

For post LOD, the DSN schedule is still being updated for the new view times. We have good coverage through 7 May. We are still waiting to see what the new schedule will look like after 7 May.